

COLUMBIA UNIVERSITY

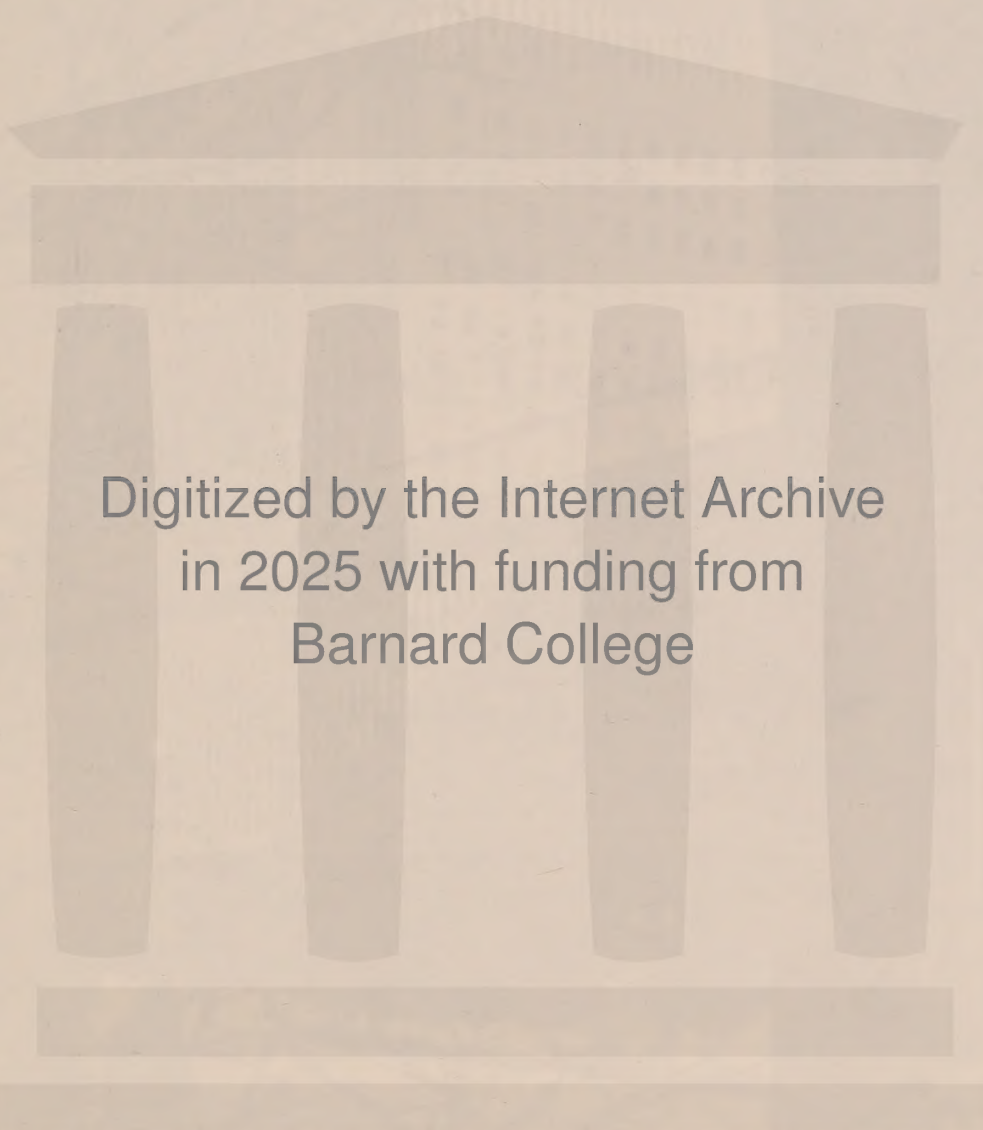
BARNARD COLLEGE



ANNOUNCEMENT FOR 1966-1967

April 25, 1966





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Barnard College



V. Sladon

BARNARD COLLEGE

THE UNDERGRADUATE COLLEGE

OF LIBERAL ARTS

FOR WOMEN

OF

Columbia University

1966 - 1967

MORNINGSIDE HEIGHTS

NEW YORK, N. Y. 10027

COMMUNICATION WITH THE COLLEGE

The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027. The telephone number is UNiversity 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College; gifts or bequests: the General Secretary

Admission to the freshman class or with advanced standing; information about financial aid for entering students; requests for catalogues: the Director of Admissions

Financial aid and loan funds for students in college; notice of withdrawal: the Dean of Studies

Academic work of students: the Class Advisers

Health: the College Physician

Housing; student activities: the Director of College Activities

Opportunities for self-help; recommendations for employment: the Placement Office

Payment of college bills: the Bursar

Requests for transcripts: the Registrar

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations

Table of Contents

I.	COLLEGE CALENDAR	4
II.	ORGANIZATION	7
	Trustees	
	Faculty	
	Officers of Administration	
III.	AN INTRODUCTION TO THE COLLEGE	22
IV.	ADMISSION	27
	The Freshman Class	
	Early Decision Plan	
	College Entrance Examination Board Tests	
	Advanced Placement	
	Advanced Standing	
	Foreign Students	
	Special Students	
	Readmission	
V.	DEGREE REQUIREMENTS	33
	Academic Requirements	
	Grading System	
	Requirements for Transfer Students	
VI.	GENERAL INFORMATION	37
	Registration	
	Academic Discipline	
	Classification of Students	
	Programs	
	Columbia University Courses	
	Summer Study	
	Examinations and Quizzes	
	Degrees	
	Dean's List	
	Health	
	Housing	
	Married Students	
	Placement Office	
VII.	COURSES OF INSTRUCTION	49
	Interdepartmental Offerings	
	Departmental Statements and Course Listings:	
	Anthropology to Spanish	
VIII.	PROFESSIONAL SCHOOLS OF COLUMBIA UNIVERSITY OPEN TO BARNARD UNDERGRADUATES AND GRADUATES	158
IX.	FEES	166
X.	FINANCIAL AID	172
	Annual Awards	
	Loan Funds	
	Scholarship Funds	
XI.	HONORS	183
	Fellowships	
	Prizes	
XII.	ASSOCIATE ALUMNAE OF BARNARD COLLEGE	189
XIII.	STATISTICS	196
XIV.	EXAMINATION GROUPS	197

SEPTEMBER, 1966

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CALENDAR

FOR 1966-1967

OCTOBER, 1966

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FEBRUARY, 1967

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NOVEMBER, 1966

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MARCH, 1967

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JULY, 1967

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DECEMBER, 1966

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APRIL, 1967

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AUGUST, 1967

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JANUARY, 1967

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MAY, 1967

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SEPTEMBER, 1967

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23	24	25	26	27	28	29
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1. College Calendar 1966-1967

- Aug.** **1** Monday. Last day for refund of Autumn Term deposit.
- Sept.** **1** Thursday. Final payments due, Autumn Term.
 26 Monday, through Sept. 28, Wednesday. Deferred examinations.
 Registration in person for Autumn Term.
 29 Thursday. Autumn Term, seventy-eighth year begins. Classes
 begin 9 a.m. Convocation, 1 p.m.
- Oct.** **7** Friday. Last day for changing program, Autumn Term.
 28 Friday. Last day for filing statement of candidacy for the
 degree in February 1967.
- Nov.** **8** Tuesday. Election Day. Holiday.
 16 Wednesday. Midterm date.
 22 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
 24 Thursday, through Nov. 27, Sunday. Thanksgiving holidays.
 29 Tuesday. Required meetings for planning programs.
- Dec.** **1** Thursday. Last day for refund of Spring Term deposit.
 16 Friday. Last day for dropping a course or point, Autumn Term.
 21 Wednesday, through Jan. 3, 1967, Tuesday. Christmas holidays.
 Residence halls closed.
- Jan.** **8** Sunday. Annual Commemoration Service in St. Paul's Chapel.
 11 Wednesday, through Jan. 13, Friday. Major examinations for
 February graduates.
 16 Monday. Final payments due, Spring Term.
 23 Monday. Midyear examinations begin.
- Feb.** **2** Thursday. Autumn Term ends.
 6 Monday and Feb. 7, Tuesday. Registration in person for Spring
 Term. Last day for filing applications for financial aid.
 8 Wednesday. Spring Term begins. Classes begin, 9 a.m.
 17 Friday. Last day for changing program, Spring Term.
 22 Wednesday. Washington's Birthday. Holiday.
 24 Friday. Last day for filing statement of candidacy for the degree
 in June 1967.
- Mar.** **1** Wednesday, through Mar. 3, Friday. Deferred examinations
 for students absent from the January 1967 series.
 31 Friday. Midterm date.

BARNARD COLLEGE

- Apr.** **1** Saturday, through Apr. 9, Sunday. Spring holidays.
 14 Friday. Last day for dropping a course or point, Spring Term.
 26 Wednesday, through Apr. 28, Friday. Major examinations for
 June and October graduates.
 27 Thursday. Required meetings for planning programs.
- May** **12** Friday. Last day for filing statement of candidacy for the degree
 in October 1967.
 22 Monday. Final examinations begin.
- June** **1** Thursday. Spring Term ends.
 4 Sunday. Baccalaureate Service.
 6 Tuesday. Conferring of degrees.
- Sept.** **28** Thursday. Autumn Term, 1967, seventy-ninth year begins.
 Classes begin 9 a.m. Convocation, 1 p.m.

II. Organization

TRUSTEES OF BARNARD COLLEGE

SAMUEL R. MILBANK, *Chairman*
FRANCIS T. P. PLIMPTON, *Vice-Chairman*
WALLACE S. JONES, *Vice-Chairman*
MRS. FRANK ALTSCHUL, *Clerk*

HENRY CHAUNCEY
MRS. JOHN ELLIOTT, JR.
MRS. WILLIAM T. GOSSETT
MRS. IOLA S. HAVERSTICK
ROBERT L. HOGUET, JR.
ROBERT S. HUTCHINS
PRESIDENT GRAYSON KIRK, *ex officio*
WILLIAM H. MATHERS
MISS ROSEMARY PARK
MRS. OGDEN R. REID
RICHARD RODGERS
CHARLES E. SALTZMAN
MRS. SYDNEY SPIVACK
MRS. ARTHUR H. SULZBERGER
MRS. FREDERICK J. WOODBRIDGE
MRS. BRUNO V. BITKER, *Alumnae Trustee*
MRS. PAUL H. FLINT, *Alumnae Trustee*
MRS. EDWARD J. PELZ, *Alumnae Trustee*
MRS. WALT W. ROSTOW, *Alumnae Trustee*
MRS. OGDEN REID, *Trustee Emeritus*

Faculty Representatives to Meet with Trustees

PROFESSOR SIDNEY BURRELL
PROFESSOR ELEANOR ROSENBERG

BARNARD COLLEGE

THE FACULTY OF BARNARD COLLEGE

GRAYSON KIRK, 1952, President of the University

A.B. Miami; M.A., Clark; Ph.D., Wisconsin; LL.D.

ROSEMARY PARK (Mrs. Milton V. Anastos), 1962, President of Barnard College and Dean in the University

A.B., Radcliffe; Ph.D., Cologne; LL.D.; Litt.D.; L.H.D.

HENRY A. BOORSE, 1937, Dean of the Faculty and Professor of Physics
B.S., United States Naval Academy; M.A., Ph.D., Columbia

¹HELEN PHELPS BAILEY, 1933, Dean of Studies and Professor of French
A.B., Barnard; M.A., Ph.D., Columbia

BARBARA S. SCHMITTER, 1957, Acting Dean of Studies and Assistant Professor of Psychology

A.B., Nebraska; M.A., Columbia

MARIANNA BYRAM, 1926, Acting Associate Dean of Studies and Assistant Professor of Art History

A.B., Barnard; M.A., Radcliffe

ANNETTE B. FOX, 1966, Visiting Lecturer in Government

A.B., Ph.D., Chicago

FRANCIS PONCE, 1966, Virginia C. Gildersleeve Visiting Professor of French

B. ès L., Caen

BALU VENKATARAMAN, 1966, Visiting Associate Professor of Chemistry
B.S., Madras; M.S., Benares; Ph.D., Columbia

JOAN ABBOTT, 1965, Assistant Professor of Biology

A.B., Connecticut College; M.A., Washington University; Ph.D., Pennsylvania

¹RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., M.A., Ph.D., Columbia

HELEN H. BACON, 1961, Professor of Greek and Latin

A.B., Ph.D., Bryn Mawr

BERNARD BARBER, 1952, Professor of Sociology

A.B., M.A., Ph.D., Harvard

ANNETTE K. BAXTER, 1952, Assistant Professor of History

A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

¹ Absent on leave, 1966-67.

THE FACULTY

BRIGITTE L. BRADLEY, 1962, Assistant Professor of German
A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D.,
Columbia

JOSEPH GERARD BRENNAN, 1947, Professor of Philosophy
A.B., Boston College; M.A., Harvard; Ph.D., Columbia

¹LE ROY C. BREUNIG, 1953, Professor of French
A.B., DePauw; Ph.D., Cornell

SIDNEY A. BURRELL, 1947, Associate Professor of History
A.B., Chicago; Ph.D., Columbia

PATRICK T. CAHILL, 1965, Assistant Professor of Physics
B.S., M.S., New Hampshire; Ph.D., Harvard

DEMETRIOS CARALEY, 1961, Associate Professor of Government
A.B., Ph.D., Columbia

JOY CHUTE, 1964, Adjunct Associate Professor of English

²WILLIAM A. CORPE, 1956, Associate Professor of Biology
A.B., M.A., Wisconsin; Ph.D., Pennsylvania State

PHEBE CRAMER, 1963, Assistant Professor of Psychology
A.B., California; Ph.D., New York

³BARBARA M. CROSS, 1959, Associate Professor of English
A.B., Smith; M.A., Yale; Ph.D., Radcliffe

ELIZABETH CZONICZER, 1952, Assistant Professor of French
Absolut., Budapest; M.A., Chicago; Ph.D., Columbia

MARGARITA U. DA CAL, 1943, Associate Professor of Spanish
Bach. Instituto-Escuela de Madrid; M.A., Ph.D., Columbia

HUBERT DORIS, 1957, Associate Professor of Music
A.B., Harvard; M.A., Columbia

PATRICIA L. DUDLEY, 1959, Assistant Professor of Biology
A.B., M.A., Colorado; Ph.D., Washington

JOSEPH A. ERWIN, 1965, Assistant Professor of Biology
B.S., M.S., St. John's University; Ph.D., Syracuse

EUGENIO FLORIT, 1945, Professor of Spanish
D. en D., Havana

PATRICK X. GALLAGHER, 1965, Associate Professor of Mathematics
A.B., Harvard; Ph.D., Princeton

¹ Absent on leave, Fall Term.

² Joint appointment with Columbia.

³ Absent on leave, Spring Term.

BARNARD COLLEGE

LAURA R. DE GARCÍA-LORCA, 1948, Associate Professor of Spanish
Lic. en F., Madrid; Ph.D., Columbia

THEODOR H. GASTER, 1966, Professor of Religion
B.A., M.A., London; Ph.D., Columbia; D.D., Vermont

SERGE GAVRONSKY, 1960, Assistant Professor of French
A.B., M.A., Ph.D., Columbia

ALBERT H. GAWER, 1964, Assistant Professor of Chemistry
B.S., M.A., Rutgers; Ph.D., Columbia

¹RENÉE GEEN, 1956, Assistant Professor of French
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia

MARION HAMILTON GILLIM, 1952, Professor of Economics
A.B., Mount Holyoke; M.A., Ph.D., Columbia

PATRICIA ALBJERG GRAHAM, 1965, Assistant Professor of Education
B.S., M.S., Purdue; Ph.D., Columbia

¹TATIANA GREENE, 1946, Assistant Professor of French
Candid, en Droit, Brussels; M.A., Ph.D., Columbia

RICHARD F. GUSTAFSON, 1965, Associate Professor of Russian
A.B., Yale; Ph.D., Columbia

ELIZABETH HARDWICK, 1965, Adjunct Associate Professor of English
A.B., M.A., Kentucky

VIRGINIA D. HARRINGTON, 1942, Associate Professor of History
A.B., Barnard; M.A., Ph.D., Columbia

²JULIUS S. HELD, 1937, Professor of Art History
Ph.D., Freiburg

LUCYLE HOOK, 1949, Professor of English
A.B., B.S., Texas Woman's University; M.A., Columbia;
Ph.D., New York

KENNETH H. JANES, 1961, Associate Professor of English and Director
of Minor Latham Playhouse

PETER H. JUVILER, 1964, Associate Professor of Government
B.E., M.E., Yale; M.A., Ph.D., Columbia

²EDWARD J. KING, 1946, Professor of Chemistry
A.B., State University of Iowa; Ph.D., Yale

RUTH M. KIVETTE, 1952, Assistant Professor of English
A.B. Barnard; M.A., Ph.D., Columbia; B.D., Union Theological
Seminary

¹ Absent on leave, Spring Term.

² Absent on leave, 1966-67.

THE FACULTY

MORTON KLASS, 1965, Associate Professor of Anthropology
A.B., Brooklyn; Ph.D., Columbia

MIRRA KOMAROVSKY, 1934, Professor of Sociology
A.B., Barnard; M.A., Ph.D., Columbia

¹JOHN KOUWENHOVEN, 1946, Professor of English
A.B., Wesleyan; M.A., Ph.D., Columbia

²POLYKARP KUSCH, 1962, Professor of Physics
B.S., Case Institute; M.S., Ph.D., Illinois; Nobel Laureate; Sc.D.

SUE HOWARD LARSON, 1965, Associate Professor of Philosophy
A.B., Ph.D., Stanford

MARION LAWRENCE, 1929, Professor of Art History
A.B., Bryn Mawr; M.A., Ph.D., Radcliffe

LYDIA H. LENAGHAN, 1962, Assistant Professor of Greek and Latin
A.B., Barnard; M.A., Ph.D., Bryn Mawr

MARISTELLA DE PANIZZA LORCH, 1951, Associate Professor of Italian
Dott. in Lett. e Filos, Rome

BARBARA MATES, 1962, Assistant Professor of Psychology
A.B., M.A., Brooklyn; M.A., Ph.D., Columbia

JOHN MESKILL, 1960, Associate Professor of Chinese and Japanese
A.B., Harvard; Ph.D., Columbia

GLADYS MEYER, 1948, Associate Professor of Sociology
A.B., Wellesley; Ph.D., Columbia

³LINDA MILLER, 1964, Assistant Professor of Government
A.B., Radcliffe; M.A., Ph.D., Columbia

^{2,3}JOHN A. MOORE, 1943, Professor of Biology
A.B., M.A., Ph.D., Columbia

¹PHOEBE MORRISON, 1952, Professor of Government
A.B., Vassar; LL.B., George Washington; J.S.D., Yale

JOANN RYAN MORSE, 1957, Assistant Professor of English
A.B., Vassar; M.A., Yale

MARY MOTHERSILL, 1963, Professor of Philosophy
B.A., Toronto; M.A., Ph.D., Radcliffe

¹ Absent on leave, Spring Term.

² Joint appointment with Columbia.

³ Absent on leave, 1966-67.

BARNARD COLLEGE

- RICHARD A. NORMAN, 1954, Associate Professor of English
A.B., George Washington; M.A., Ph.D., Columbia
- BARBARA NOVAK, 1958, Assistant Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
- REMINGTON P. PATTERSON, 1955, Associate Professor of English
A.B., M.A., Ph.D., Yale
- MARION R. PHILIPS, 1945-55; 1958, Assistant Professor of Physical
Education
A.B., Hunter; M.A., Columbia
- BASIL RAUCH, 1941, Professor of History
A.B., Notre Dame; Ph.D., Columbia
- DONALD D. RITCHIE, 1948, Professor of Biology
A.B., B.S., Furman; M.A., Ph.D., North Carolina
- DAVID A. ROBERTSON, JR., 1940, Professor of English
A.B., M.A., Ph.D., Princeton
- ELEANOR ROSENBERG, 1953, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- ABRAHAM ROSMAN, 1966, Associate Professor of Anthropology
A.B., City University of New York; Ph.D., Yale
- PAULA G. RUBEL, 1965, Assistant Professor of Anthropology
A.B., Hunter; Ph.D., Columbia
- GERTRUD M. SAKRAWA, 1952, Assistant Professor of German
M.A., Columbia; Ph.D., Vienna, Columbia
- RAYMOND J. SAULNIER, 1938, Professor of Economics
B.S., Middlebury; M.A., Tufts; Ph.D., Columbia; LL.D.,
Middlebury, Babson Institute
- BERNICE SEGAL, 1958, Assistant Professor of Chemistry
A.B., Radcliffe; Ph.D., Columbia
- MIRELLA D'AMBROSIO DE SERVODIDIO, 1964, Assistant Professor of Spanish
A.B., Barnard; M.A., Ph.D., Columbia
- HENRY S. SHARP, 1941, Professor of Geology
A.B., Cornell; M.A., Ph.D., Columbia
- MAURICE Z. SHRODER, 1965, Associate Professor of French
B.S., Northwestern; M.A., Ph.D., Harvard
- LOUISE G. STABENAU, 1925, Associate Professor of German
Abitur, Bremen; M.A., Columbia

THE FACULTY

¹HAROLD STAHLER, 1957, Associate Professor of Religion
A.B., Dartmouth; B.D., Union Theological Seminary;
Ph.D., Cambridge

EMMA DIETZ STECHER, 1945, Professor of Chemistry
A.B., Barnard; M.A., Columbia; Ph.D., Bryn Mawr

WALTER C. STRODT, 1962, Professor of Mathematics
A.B., M.A., Ph.D., Columbia

MICHAEL STUDDERT-KENNEDY, 1961, Assistant Professor of Psychology
B.A., (Cantab.); Ph.D., Columbia

HOWARD M. TEICHMANN, 1946, Adjunct Professor of English
A.B., Wisconsin

ELEANOR M. TILTON, 1950, Professor of English
A.B., Mount Holyoke; M.A., Boston; Ph.D., Columbia

BARRY ULANOV, 1951, Professor of English
A.B., Ph.D., Columbia; Litt.D., Villanova

FREDERICK E. WARBURTON, 1963, Assistant Professor of Biology
B.Sc., M.Sc., Ph.D., McGill

JEAN WILBURN, 1965, Assistant Professor of Economics
A.B., California; M.A., Ph.D., Columbia

CHILTON WILLIAMSON, 1942, Professor of History
A.B., M.A., Ph.D., Columbia

GEORGE WOODBRIDGE, 1960, Assistant Professor of History
A.B., M.A., Columbia; Ph.D., Wisconsin

RICHARD YOUTZ, 1940, Professor of Psychology
A.B., Carleton; Ph.D., Yale

LEONARD ZOBLER, 1955, Professor of Geography
B.S., M.S., State College of Washington; Ph.D., Columbia

FORREST L. ABBOTT, 1953, Treasurer and Controller
B.S., Southwest Missouri State Teachers; M.A., Ed.D., Columbia

TO BE ANNOUNCED, Librarian

HELEN LAW, 1952, Registrar and Secretary to the Faculty
A.B., College of New Rochelle

¹ Joint appointment with Columbia.

BARNARD COLLEGE

MARJORY J. NELSON, 1948, College Physician
A.B., Barnard; M.D., Cornell

JEAN T. PALMER, 1946, General Secretary
A.B., Bryn Mawr

SARAH KATHARINE THOMSON, 1955, Reference Librarian
A.B., Agnes Scott; M.S., Columbia

FACULTY EMERITI

MINOR W. LATHAM, 1914-1948, Professor Emeritus of English
Ph.D.

WILLIAM HALLER, 1909-1950, Professor Emeritus of English
Ph.D., L.H.D.

FLORENCE DE LOISELLE LOWTHER, 1914-1950, Professor Emeritus of
Zoology, Ph.D.

ELIZABETH FAULKNER BAKER, 1919-1952, Professor Emeritus of
Economics, Ph.D.

HUGH WILEY PUCKETT, 1916-1953, Professor Emeritus of German
Ph.D.

HELEN R. DOWNES, 1933-1960, Professor Emeritus of Chemistry
Ph.D.

AMELIA A. DE DEL RÍO, 1930-1962, Professor Emeritus of Spanish
Ph.D.

MILLICENT C. MC INTOSH, 1947-1962, President Emeritus
Ph.D., LL.D., Litt.D., L.H.D.

MARGARET HOLLAND, 1926-1964, Professor Emeritus of Physical
Education, M.A.

THOMAS P. PEARDON, 1923-1965, Professor Emeritus of Government
Ph.D.

W. CABELL GREET, 1926-1966, McIntosh Professor Emeritus of English
Ph.D., Litt. D.

OTHER OFFICERS OF INSTRUCTION

EDITH ABBOTT, 1964, Instructor in Physical Education
A.B., Trenton State

THE FACULTY

- ERICA HENNEFELD ABEEL, 1965, Instructor in French
A.B., Sarah Lawrence; M.A., Columbia
- INA B. ALTERMAN, 1966, Assistant in Geology and Geography
A.B., City University of New York
- RONNIE BRANCAZIO, 1963, Assistant in Psychology
A.B., Barnard
- DOMNA CALLIMANOPULOS, 1962, Instructor in French
A.B., Wellesley; M.A., Columbia
- LAMBERTO ANTONIO CANO, 1966, Instructor in Spanish
B.B.A., Puerto Rico
- PATRICIA CARPENTER, 1961, Instructor in Music
A.B., California
- ELIZABETH LOUISE CAUGHRAN, 1956, Associate in English
A.B., Russell Sage; M.A., Columbia
- EDWARD S. COBB, 1963, Instructor in Psychology
A.B., M.A., Columbia
- KENNETH COOPER, 1965, Assistant in Music
A.B., M.A., Columbia
- MARIE JOSEPHINE BRETTLE CORNGOLD, 1966, Instructor in French
B.A., Leeds; M.A., Cornell
- TANIA M. COSMAN, 1962, Director of Language Laboratory
A.B., M.A., Middlebury; M.A., Columbia
- MARIE-CLAIRE COURNAND, 1965, Instructor (Part-time) in French
Bacc., Lycée Français de New-York; B.A., Oxford
- ELIZABETH DALTON, 1965, Instructor (Part-time) in English
A.B., California; M.A., Ohio
- MARJORIE HOUSEPIAN DOBKIN, 1957-59; 1960, Associate in English
A.B., Barnard
- ANTONIO FRANCESCHETTI, 1964, Instructor in Italian
Dott. Lett., Padova
- AURELIA T. FÜLE, 1966, Lecturer in Religion
B.A., M.A., Oxford; Th.D., Union Theological Seminary
- FERRUCCIO GAMBINO, 1966, Instructor (Part-time) in Italian
Laurea, Milan
- SANDRA GENTER, 1961, Associate in Physical Education
A.B., Wisconsin; M.A., Columbia
- NANCY E. GLUCK, 1964, Assistant in Psychology
A.B., Barnard; M.A., Columbia

BARNARD COLLEGE

AMY GOLDBLATT, 1963, Assistant in Psychology
A.B., Barnard; M.A., Columbia

JACQUELINE GUÉRON, 1965, Instructor in French
A.B., Pennsylvania; M. A., Radcliffe

HELMUT GUTMANN, 1960, Instructor in German
Abitur, Fulda; M.A., Columbia

DANIELLE HAASE-DUBOSC, 1962, Instructor in French
A.B., Barnard; M.A. Columbia

MARGARET HANCE, 1955, Assistant in English
A.B., Wittenberg

ANN SUTHERLAND HARRIS, 1965, Lecturer in Art History
B.A., Ph.D., London

ANTHONY G. HENDERSON, 1964, Instructor (Part-time) in English
A.B., Harvard; B.A., Cambridge

JANE HESS, 1965, Assistant in English
A.B., Bryn Mawr

WILLIAM HINKLE, 1966, Lecturer in Art History
A.B., Yale; Ph.D., Columbia

JUDITH S. JOSEPH, 1965, Assistant in Chemistry
A.B., Barnard

PHYLLIS B. KATZ, 1966, Instructor (Part-time) in Greek and Latin
A.B., Wellesley; M.A., California

LYDIA W. KESICH, 1959-65; 1966, Instructor in Russian
A.B., Vassar; M.A., Columbia

¹GRACE W. KING, 1960, Lecturer in Chemistry
A.B., Maine; Ph.D., Yale

PATRICIA H. LABALME, 1961-64; 1965, Lecturer in History
A.B., Bryn Mawr; M.A., Ph.D., Radcliffe

CECILE G. LICHTENSTEIN, 1966, Assistant in Chemistry
A.B., Hunter; M.A., Columbia

PETER F. MAC NEILAGE, 1961, Lecturer in Psychology
B.A., M.A., Canterbury; Ph.D., McGill

¹ Absent on leave, 1966-67.

THE FACULTY

MARIA EUGENIA MARCH, 1965, Instructor in Spanish
A.B., California; M.A., Washington

EDITH G. MASON, 1956, Associate in Physical Education
B.S., Winthrop; M.S., Louisiana State

RUTH M. MATHEWSON, 1964, Instructor (Part-time) in English
A.B., Vassar

DEBORAH D. MILENKOVITCH, 1965, Instructor in Economics
A.B., Radcliffe

KATHERINE MURRAY MILLETT, 1964, Instructor (Part-time) in English
A.B., Minnesota; B.A., Oxford

NATHALIE S. NABOKOFF, 1961, Associate in Russian

LUCILLE W. PLOTZ, 1964, Assistant in Biology
A.B., Barnard

ANNE LAKE PRESCOTT, 1959-62; 1963, Instructor (Part-time) in English
A.B., Barnard; M.A., Columbia

HERMINE RIFFATERRE, 1961, Instructor in French
A.B., Hunter; M.A., Columbia; B. ès L., Toulouse

JEANETTE SCHLOTTMANN ROOSEVELT, 1951-58; 1962, Associate in
Physical Education
B.S., M.A., Texas Woman's University

DAVID ROSAND, 1965, Instructor in Art History
A.B., M.A., Ph.D., Columbia

CHRISTINE ROYER, 1965, Instructor (Part-time) in English
A.B., Western Maryland; M.A., Pennsylvania

ANATOL K. SAPRONOW, 1966, Associate in Russian

STEPHEN WILLIAM SCHNEIDERMAN, 1966, Instructor in Greek and Latin
A.B., Princeton; M.A., Harvard

CAROLYN SCHREIBER, 1966, Assistant in Psychology
A.B., Brandeis

SUSAN SCHULMAN, 1965, Assistant in Psychology
A.B., Adelphi; M.A., Columbia

BARNARD COLLEGE

FEDERICO SERRA-LIMA, 1963, Instructor in Spanish
B.S., Columbia; M.A., New York University

GOLDA SHATZ, 1965, Assistant in Psychology
A.B., Barnard

ETHEL SHEFFER, 1964, Instructor (Part-time) in Government
A.B., Brooklyn; M.A., Columbia

AUDREY SLESINGER, 1965, Instructor in Government
A.B., Wellesley; M.A., Columbia

SUSAN SOLLINS, 1964, Studio Assistant in Art History
A.B., Sarah Lawrence

CATHARINE R. STIMPSON, 1963, Instructor (Part-time) in English
A.B., Bryn Mawr; B.A., Cambridge

ELIZABETH SUROVELL, 1964, Assistant in Geology
A.B., Barnard

ELLEN TERRY, 1962-65; 1966, Instructor in English and Technical
Director, Minor Latham Playhouse
A.B., Denver; M.F.A., Yale

PATRICIA TERRY, 1958, Lecturer in French
A.B., Wellesley; M.A., Ph.D., Columbia

JANICE FARRAR THADDEUS, 1956, Lecturer in English
A.B., Barnard; M.A., Ph.D., Columbia

ZOYA A. TRIFUNOVICH, 1959, Instructor in Russian
B.S., M.A., Columbia

SU-CHU TSO, 1964, Assistant in Chemistry
B.S., Cheng Kung; M.S., Wellesley

ILMAR WALDNER, 1966, Instructor in Philosophy
A.B., Illinois

DEENA WECHSLER, 1965, Assistant in Psychology
A.B., Barnard

SUZANNE F. WEMPLE, 1966, Instructor in History
M.L.S., Columbia

THERESA L. WHITESIDE, 1966, Assistant in Biology
A.B., M.A., Columbia

HEIDRUN ELSE WILDE, 1965, Instructor in German
Abitur, Munich; A.B., Lawrence University

OFFICERS OF ADMINISTRATION

OFFICERS OF ADMINISTRATION

ROSEMARY PARK (Mrs. Milton V. Anastos), Ph.D., LL.D., Litt.D., L.H.D.
President of Barnard College and Dean in the University

HENRY A. BOORSE, Ph.D.

Dean of the Faculty and Professor of Physics

¹HELEN PHELPS BAILEY, Ph.D.

Dean of Studies and Professor of French

BARBARA S. SCHMITTER, M.A.

Acting Dean of Studies and Assistant Professor of Psychology

MARIANNA BYRAM, M.A.

Acting Associate Dean of Studies and Assistant Professor
of Art History

JEAN T. PALMER, A.B.

General Secretary and Director of Development

FORREST L. ABBOTT, Ed.D.

Treasurer and Controller

OFFICE OF THE PRESIDENT

DOROTHY H. HEFFERLINE, M.A.

Executive Secretary

OFFICE OF THE DEANS

LOUISE G. STABENAU, M.A.

Adviser to the Class of 1969

MIRELLA DE SERVODIDIO, Ph.D.

Advisers to the Class of 1970

CHRISTINE ROYER, M.A.

CATHARINE R. STIMPSON, A.B.

Adviser to Foreign Students

MARGARET KNIFFIN, A.B.

Executive Assistant

OFFICE OF ADMISSIONS

HELEN M. MC CANN, A.B.

Director

MARGARET DYKES DAYTON, M.A.

Associate Director

JOSEPHINE BENZ, A.B.

Assistant Director

OFFICE OF THE ASSOCIATE ALUMNAE

JEAN M. WALLACE, A.B.

Executive Secretary

OFFICE OF BUILDINGS AND GROUNDS

JOHN G. KIESSLING

Director

MARY BANE

Manager of Purchasing

MARGARET V. O'SHEA

Supervisor of Building Services

¹ Absent on leave, 1966-67.

BARNARD COLLEGE

OFFICE OF THE BURSAR

FRANCES A. BARRY, M.S.

Bursar

DEVELOPMENT OFFICE

JEAN T. PALMER, A.B.

Director

ELEANOR MINTZ, A.B.

Director, Barnard Fund

FINANCIAL AID

VIRGINIA SHAW, A.B.

Director

FOOD SERVICES

ELEANOR R. SMITH, B.S.

Director

HEALTH SERVICE

MARJORY J. NELSON, M.D.

College Physician

A. LOUISE BRUSH, M.D.

Consulting Psychiatrist

ZIRA DE FRIES, M.D.

Consulting Psychiatrist

LILO R. GROTHE, M.S., Ph.D.

Psychiatric Counselor

LELA ANDERSON, R.N.

Nurse

BEATRICE G. TUCKER, R.N.

Nurse

CHARLES L. GILBERT, M.D.

University Medical Officer

LIBRARY

TO BE ANNOUNCED

Librarian

SARAH KATHARINE THOMSON, M.S.

Reference Librarian

EDNA C. LAW, A.M., M.S.

Circulation Librarian

NATALIE SONEVYTSKY, M.S.

Assistant Reference Librarian

MARY J. KELLY, M.S.

Order Librarian

MYROSLAVA T. ZNAYENKO, M.A., M.S.

Reserve Librarian

PATRICIA K. BALLOU, A.B., B.S.

Assistant Reference and
Circulation Librarian

PLACEMENT OFFICE

JANE A. SCHWARTZ, A.B.

Director

LEONORE POCKMAN, A.B.

Assistant Director

NOVELLA LANDAU

Administrative Assistant

OFFICERS OF ADMINISTRATION

PUBLIC RELATIONS OFFICE

LILA ROSENBLUM, A.B.	Director
BEBE PRITAM JOHNSON, M.S.	Administrative Assistant

OFFICE OF THE REGISTRAR

HELEN LAW, A.B.	Registrar and Secretary to the Faculty
DORIS CAMPBELL, A.B.	Assistant Registrar
LENA BATTISTA	Administrative Assistant

OFFICE OF THE TREASURER AND CONTROLLER

HELEN VANIDES	Executive Assistant
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III. An Introduction to the College

BARNARD'S HISTORY

Barnard College was among the pioneers in the crusade, waged so ardently in the late nineteenth century, to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in the royal charter granted by George II in 1754 to the Governors of the College of the Province of New York, creating them a Body Corporate to erect and maintain King's College "for the Instruction and Education of Youth in the Learned Languages and Liberal Arts and Sciences." The Revolutionary War interrupted its active work when its buildings were requisitioned by the Continental Armies, but in 1784 it was reopened as Columbia College. In 1896 it was designated a university, and in 1912 its title was legally changed to Columbia University in the City of New York.

Barnard College had its inception in an idea proposed in 1879 to the Trustees of Columbia by its tenth president, Frederick A. P. Barnard. It was his conviction that "in the interest of society the mental culture of women should be not inferior in character to that of men," and that young women should, therefore, be admitted to Columbia College. This thought which "failed to attract the serious attention of the Trustees," was, nevertheless, rigorously developed by President Barnard, and in 1883 a petition signed by over a thousand citizens of New York culminated in the inauguration of the "Collegiate Course for Women." Women who passed "a very strict entrance examination" were authorized to follow a prescribed course, but were left "entirely free as to where or how to carry on [their] studies, whether in some school, private or public, or at home, or under the auspices or direction of any association interested in [their] welfare and advancement. . . . Suitable academic honors and distinctions" were awarded to those who on examination were found to have pursued such courses with success. This system was destined to please no one, neither the young women whose search for instruction was made so difficult, nor Columbia College whose degree could thus be conferred on the strength of examinations only. Six years later when Certain Friends of the Higher Education of Women presented still another proposal to Columbia's Trustees, cooperation was obtained for the establishment of an affiliated college for women. A provisional charter was granted by the State of New York, promise of funds for the first four years was secured, and its name, in honor of its most prophetic and persistent advocate, was chosen.

AN INTRODUCTION TO THE COLLEGE

In October, 1889, the first class of Barnard College met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts and twenty-two students in science, who, lacking the entrance requirements in Greek, were known as "specials." Six members of Columbia's staff gave instruction in prescribed subjects: English, French, or German, Greek, Latin, and mathematics. A fellow of the University of Pennsylvania, Dr. Emily Gregory, volunteered her services as botanist, and Columbia soon sanctioned this role by appointing her its first woman lecturer.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 it was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean; it was responsible for its own endowment and plant; it shared the instruction, the library, and the degrees of a university.

BARNARD TODAY

Barnard today presents rewarding contrast to the pioneer days. The teaching staff of six has grown to almost 200 men and women, some of them members of the University Faculties and some coming to the classrooms from the world of literature, the theatre, and the arts. From the original fourteen matriculated students, enrollment has increased to 1,650; since 1893 Columbia has awarded its degree to 14,118 Barnard students. Pledges of support for the first college generation have expanded to current endowment funds of \$13,000,000.

THE CURRICULUM

Within the University Barnard's corporate identity is maintained as an independent college for women. The curriculum offers the undergraduate opportunity to cultivate the liberal arts and sciences, to explore her cultural heritage, to discover and develop her capacity for intellectual adventure, and to establish habits of thought whereby she may utilize her knowledge in all facets of her future life.

Specific requirements for the degree are designed to give some comprehension of the roots of our civilization and an awareness of the diverse areas of human thought and their interrelationship: courses in humanities enlarge the student's contact with literature and such fields as art history, music, philosophy, and religion; a year's work in history is required as well as courses which deal with some phase of contemporary society; acquaintance with the ideas and methods of a laboratory science is considered essential for an informed person in

BARNARD COLLEGE

the modern world; finally, competence is necessary in at least one foreign language, to serve as an instrument for understanding and evaluating the achievements of other nationalities and a basis for communication with peoples whose history and traditions may differ from our own. This comprises the basic curriculum of each student. Assistance in planning her individual course of study is given by her class adviser, a member of the teaching staff who supervises the work of the freshman and sophomore years.

At the end of this period each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and all other phases of the college work. A major is offered by every department; interdepartmental majors may be requested in interrelated fields.

Classes vary in size. Language classes are small as are other courses in which student participation is important. All introductory courses and classes taught primarily by the lecture method are divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with a wide variety of modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in the research projects of members of the Faculty. Some undergraduate courses are held with Columbia College, and the Departments of Greek and Latin, Italian, Mathematics, Music, Physics, and Religion are conducted jointly with the University. Graduate courses in the University also are open to qualified upperclassmen.

THE CAMPUS

The campus now occupies four acres of land adjacent to Columbia, between 116th and 120th Streets. The residence halls, Brooks and Hewitt, and Helen Reid Hall which opened in the autumn of 1961, face an open quadrangle. A College apartment building on 116th Street was remodeled in 1964 and converted into suites for upperclassmen. Milbank Hall at the northern end of the campus contains administrative offices and classrooms, the laboratories of the natural sciences, a greenhouse and an animal house for the use of students of biology, penthouse studios and practice rooms for music, and the Minor Latham Playhouse, where drama students and dramatics groups may use the equipment of a modern theatre. The French, German, and Spanish Departments in Milbank Hall have social and reading rooms furnished by friends of the College with valuable paintings, music records, and books. In Barnard Hall are the gymnasium, the swimming pool and dance studios, English seminar and classrooms, a spacious social center

known as the James Room, and the Annex with a lounge and snack bar and quarters for student organizations.

Adele Lehman Hall, a five-story building containing the Wollman Library and classrooms, was opened in the autumn of 1959. The library was designed to provide for an expanding collection of both book materials and services, thus making available opportunities for independent work in advanced courses. It has a growing record collection with ample listening facilities, as well as an audio-visual studio and control room for the recording of tapes and for the use of other audio-visual equipment. The print room offers facilities for the study of photographs and art reproductions. Carrels are provided for individual study, a seminar room for class use of library materials, small rooms for typing, and studies for informal student discussion. The open-shelf arrangement, occupying three and one-half floors, has a capacity of 150,000 volumes, and Barnard students have access also to the over 3,000,000 volumes in the University libraries. Offices and seminars of the social science departments and classrooms occupy the top floor. A thirty-booth language laboratory on the ground floor is utilized by all language departments and by students of English speech.

A Student Center and a large building which will be devoted primarily to the sciences are in the planning stage. Two additional neighborhood apartment houses have been acquired for early conversion to student residences.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature. One third of the students have families within commuting distance; the others come from nearly every state in the Union and some twenty-five foreign countries. All represent diversity in background and training; and mingling of economic, regional, and cultural strains finds expression in the life of the campus.

The Undergraduate Association, of which all students are members, sponsors extracurricular activities reflecting current interests: the college newspaper, the literary magazine, dramatic clubs, political and religious clubs, the premedical club, and clubs representing many departmental fields. Students from Barnard and Columbia plan together for the social program of the two colleges. Many activities, such as the University's Chorus and Orchestra and its radio station, invite membership from all undergraduates in the University, and a Citizenship Program enlists volunteers from both colleges for community service.

The freshman and sophomore festival, Greek Games, is presented in the

BARNARD COLLEGE

spring. Themes from classical mythology are portrayed in original dance, music, and verse, and an athletic contest is climaxed by a chariot race in which class teams of four "horses" compete in exciting style.

In the college community the Undergraduate Association takes wide responsibility, and its members serve on important faculty-student committees. All students are automatically under the jurisdiction of the Honor Code, administered by the Honor Board of the Association, whereby a high standard of honor in examinations and all other phases of college life is maintained. Students are expected to behave at all times in a manner which will reflect favorably upon themselves and the College. A Judicial Council comprising undergraduates and faculty members recommends disciplinary measures for nonacademic offenses.

Religious organizations and activities, with headquarters on the Columbia campus in Earl Hall, are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of contemporary religious and philosophical thought by faculty and guest speakers and students. The devotional life of the College and University is centered in St. Paul's Chapel, where weekday and Sunday services are held. Attendance is voluntary. Through the cooperation of the Chaplain and counselors of various faiths a unity of religious life is secured within the University, while within each faith individual traditions are maintained.

The Athletic Association sponsors many campus activities, such as tennis, basketball, water ballet, fencing, and modern dance. Intercollegiate Sports Days held throughout the year enable students to participate in athletic events with other colleges. In 1933 the Barnard Camp, twenty acres of wooded land in Westchester County, was purchased by the alumnae, providing an accessible site for recreation during country weekends.

NEW YORK IS BARNARD'S LABORATORY

Fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan laboratory.

IV. Admission

Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad.

Students who wish to discuss their plans with a member of the Admissions staff may request an interview at the College in the fall of their senior year, or in their junior year except during the period between March 1 and May 1. Whenever it is possible the College will arrange interviews with alumnae for those students who are unable to visit the campus.

ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before January 15 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A nonrefundable fee of \$15 must accompany each application.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.
- 2) Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education rep-

BARNARD COLLEGE

representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree, and should include four years of work in English, three years in one foreign language, ancient or modern, and two in another, and college preparatory mathematics studied for two years. The remainder of the course should consist of work in history, science, mathematics, music, art, or additional work in language. For premedical students advanced work in science, mathematics, and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics, and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Scholastic Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) history, science, or mathematics. The Scholastic Aptitude Test should be taken in December or January of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) should be taken in December or January of the senior year. Students are also urged to take the Language Listening Comprehension Examination. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. If the Scholastic Aptitude Test is taken for guidance purposes in the junior year, the scores should be reported to the College.

EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on the applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York, N.Y. 10027, before October 15 of the senior year. Applications must be accompanied by the \$15 application fee.

Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postponement of decision until the customary date in the spring. Each applicant will be

considered on the basis of (1) the recommendation of her school principal or counselor, (2) her three-year record at school, and (3) the results of the required College Board Scholastic Aptitude Test and the three Scholastic Achievement Tests taken in her junior year in English composition, a foreign language, and history, science, or mathematics.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January, a deposit of \$100 if she is to be a commuting student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, with the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1966-67;

Saturday, December 3, 1966	Saturday, May 6, 1967
Saturday, January 14, 1967	Saturday, July 8, 1967
Saturday, March 4, 1967	

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Box 1025, Berkeley, California 94701.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Berkeley, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the

BARNARD COLLEGE

date of the examination; for all other candidates the closing date is four weeks before the date of the examination. A penalty fee of \$2.50 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Berkeley later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone.....	\$ 5.00
One, two, or three Achievement Tests.....	7.50

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission. Candidates will not receive reports of their tests from the Board.

ADMISSION WITH ADVANCED PLACEMENT

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshman year, at the discretion of the departments concerned.

On recommendation of the Barnard departments concerned, students with scores of 4 or better on the College Entrance Examination Board Advanced Placement Tests may be given up to 12 points of credit for advanced work done in high school.

ADMISSION TO ADVANCED STANDING

Transfer students are admitted in September and in February. Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university or institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 35.)

The student should submit her formal application and the following credentials: her secondary school record, a recommendation from her principal and her college dean or class adviser, a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked, and the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior

college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission of a transfer student depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before May 15 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the Committee on Admissions by September 15; otherwise, the student may be asked to postpone registration until after classes begin, thereby incurring an additional fee of \$15 for lateness.

Seniors who are degree candidates of other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

ADMISSION OF FOREIGN STUDENTS

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Freshman candidates should also present the Achievement examination results. Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of English as a Foreign Language. Information about registration should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or February) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained.

BARNARD COLLEGE

Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright Travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work later.

Definite credit for study at foreign institutions is not assigned until a full year of satisfactory work has been completed at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose home is outside the United States, please see page 171.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

ADMISSION AS SPECIAL STUDENTS

Mature students who wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as nonmatriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency, and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete 30 points of work, they may apply for transfer to a matriculated basis as candidates for a degree.

READMISSION

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically readmitted. She should make application for readmission to the Director of Admissions. A non-refundable fee of \$15 must accompany the application of any student who has not been granted a leave of absence by the Dean of Studies. Completed applications are due by December 1 for the Spring Term, and by March 15 for the Autumn Term. All required credentials (e.g., medical reports, transcripts, recommendations) as well as the application must be submitted by these dates.

V. Degree Requirements

ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 120 points and include the following:

I. English A1–A2

The introductory course, Reading and Writing. (Foreign students please refer to page 31.)

II. Foreign Languages

Competence in a modern foreign language, or in Greek or Latin. This requirement may be fulfilled either by passing an examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.)

III. Humanities

(a) Literature: One full year (6 points) to be studied in the language in which it was written originally, normally the six points to be taken in the same language.

(b) Six points in art history, literature (in the original or in translation), music, philosophy, religion; or four points, if Art History 1–2 is taken without laboratory.

IV. Social Sciences

(a) History (6 points).

European: 1–2

American: 9–10; 31, 32; 33, 34; 35–36

(b) Contemporary Society (6 points).

Anthropology 1, 2

Economics 1–2; 19; 25, 26

Geography 3; 4; W4011x; W4012y

Government 1, 2 (both terms); 7, 8; 9; 10; 11, 12; 15; 16; 21

Psychology 38

Religion 25; 26

Sociology 1, 2

Unless both terms are indicated, any combination of these courses may be made.

BARNARD COLLEGE

V. Natural Sciences

One full-year course with laboratory.

Biology

Chemistry

Geology

Physics

Psychology; Any two of these
courses: 5; 8; 12; 17; 27; 30

VI. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work. Each department requires, as specified, either a senior thesis or a major examination. A major may be chosen in any one field, or in such combinations as are approved by the departments concerned and the Committee on Programs and Academic Standing. Transfer students are required to take a minimum of 18 points in their major at Barnard.

VII. Electives: To be chosen in accordance with the interests and objectives of the student.

VIII. Physical Education (required through the junior year or until senior classification—86 points—is achieved).

All requirements must be completed within six years of the student's matriculation as a freshman at Barnard or elsewhere.

MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in the major field. The exact nature of these requirements varies with the subject matter and the department's conception of the best method of mastering it. In some, a major examination must be taken; in others a senior thesis must be written or a senior seminar successfully completed. Specific requirements are listed in the departmental statements, beginning on page 49. In the second term of the sophomore year each student chooses her major adviser, with whom she plans all subsequent work in her area of concentration.

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quantity is estimated by the number of points completed. The credit value in points follows each course title, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are exceptions.) Quality of work is in-

DEGREE REQUIREMENTS

dictated by the following grades: A or A—, excellent; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure, and P, passed without a specific grade. Work of unusual merit in the major field is awarded the grade, Passed with Distinction.

A course is marked Incomplete (Inc), if the student has filed the instructor's written permission for the postponement of required work with the Registrar; Absent (Abs) means absent from the final examination; Deferred (Def) means the grade has been deferred because of illness during the examination; WD/F signifies withdrawal from a course without formal notification.

In computing averages, each point with a mark of A = 4; B = 3; C = 2; D = 1; F = 0. For every plus or minus point an adjustment of +0.3 or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. At the end of each term all records are examined. Normally only those students whose cumulative average is 2.00 or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on Programs and Academic Standing.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Loss of credit for excess D work is deducted from the total number of points for the year. Work of D grade is not counted in the major field, although it is included in the average for the major.

REQUIREMENTS FOR TRANSFER STUDENTS

Before registration the transfer student receives an estimate of the credit she may expect for work she has done at her previous college. She plans her program with her adviser with the estimate as a guide to the required work to be completed. The following restrictions should be noted: All transfer students must take the English proficiency test before registration. Any student who has had an introductory course in her former college which is comparable to English A1-A2 may offer it in fulfillment of the English requirement, provided she passes the proficiency test. Others are assigned to English courses suited to their needs.

Transfer students are required to take a language placement test before registration and are assigned to the course which the results of the test indicate they are prepared to take. A high score on the test will give exemption from the language requirement. Should the student be placed in a language course lower than one already passed at her former college she will lose credit for any work that must be repeated. Transfer work in literature may be counted as elective credit and

BARNARD COLLEGE

may be used to satisfy the literature requirement of the humanities under certain conditions, even though the student may be required to take additional work in language to complete the language requirement.

A speech test during the registration period is also required of all transfers.

A maximum of 32 points towards the Barnard degree is allowed for one year's work elsewhere. Sixty of the points to be counted toward the degree must be taken at Barnard, including a minimum of 18 points in the major field. Not more than 6 points of work of D grade done elsewhere may be counted toward the degree.

VI. General Information

REGISTRATION

Class advisers for the freshman and sophomore years and major advisers for upperclassmen are appointed from the teaching staff and are prepared to give information and advice. For the year 1966-67 the class advisers are:

Adviser to the Class of 1969	MRS. LOUISE G. STABENAU
Advisers to the Class of 1970	MRS. MIRELLA DE SERVODIDIO MISS CHRISTINE ROYER

Registration for all students takes place in 306 Barnard Hall, as follows:

Autumn Term

Monday, September 26	All returning commuting students
Tuesday, September 27	All returning resident and non-resident students
Wednesday, September 28	
9:00 a.m.—12 noon	All freshmen
1:00 p.m.—4:00 p.m.	All transfers and readmitted students

Spring Term

Monday, February 6	All freshmen and sophomores
Tuesday, February 7	All juniors and seniors

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fee of \$15 is charged for failure to register at the scheduled time. (See also Payment of Fees, page 167.)

No student will be permitted to register after Friday, October 7, in the Autumn Term and Friday, February 17, in the Spring Term.

No student may be registered simultaneously in any other school or college without the consent of the President of the College.

REGISTRATION IN ABSENTIA

A student is expected to take a minimum of 15 points of her senior year at Barnard. Permission to complete the work for the degree while registered *in absentia* may be granted under certain conditions on application to the Committee on Programs and Academic Standing.

BARNARD COLLEGE

ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the College, the receipt of academic credit, graduation and the conferring of a degree or certificate are subject to the disciplinary powers of the College. Any registration may be cancelled at such time and upon such grounds as the College shall in its sole discretion determine.

ATTENDANCE

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with consequent detriment to their academic standing. Frequent or prolonged absences from the College without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

The attendance of freshmen and students who are on probation is subject to special review by the Dean of Studies. Excessive absence in their cases may result in loss of credit from the total number of points for the term.

All absences due to illness must be reported on forms available in the Office of the College Physician. Illness is considered an excuse for excessive absence only if the student's statement is filed immediately upon her return to college.

Barnard is a nondenominational college. Students who are prevented by conscientious scruples from complying with academic requirements on days set apart for religious observance should discuss this problem with their religious counselor.

WITHDRAWAL

A student not subject to discipline for infraction of College rules may withdraw from the College with an honorable discharge. Notice of intention to withdraw must be given in writing on forms to be obtained from the Office of the Dean of Studies. A student under twenty-one must furnish written assent of a parent or guardian. Failure to submit the proper notification on the part of a student who withdraws while college is in session may result in a report of WD/F for the term's work.

Requests for leaves of absence should be addressed to the Dean of Studies on forms to be obtained from her office. A student in good standing may be granted a leave of absence for one term or two consecutive terms only, for personal reasons, e.g., health, marriage, financial necessity, or for study abroad. Completed application for leave of absence must be received prior to the term(s) to which it applies: by July 1 for the Autumn Term; by January 15 for the Spring Term.

GENERAL INFORMATION

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen:	those who have completed fewer than 24 points of academic work
Sophomores:	those who have completed 24 points
Juniors:	those who have completed 54 points
Seniors:	those who have completed 86 points
Unclassified:	those who have not yet been assigned definite credit on transfer
Nonmatriculated:	those who are not candidates for the degree

No matriculated student may change her status to that of nonmatriculated student.

CHANGE OF PROGRAM

Students may change the programs for which they have registered, through Friday, October 7, Autumn Term, and Friday, February 17, Spring Term. After that date, changes of program are subject to the following regulations:

Section Changes: Sections may not be changed except at the written request of the instructor.

Adding Courses: No course or point may be added for any reason.

Dropping Courses: A course or point may be dropped with the written approval of the class adviser (for freshmen and sophomores), the major adviser (for juniors and seniors), or the College Physician. After a fixed date (Friday, December 16, Autumn Term; Friday, April 14, Spring Term), no course or point may be dropped except with the approval of the Dean of Studies, and then only for reasons of serious personal emergency.

Audited Courses: No change from a non-credit to a credit basis may be made under any circumstances after the final date for adding a point or a course.

PROGRAM RESTRICTIONS

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Academic Standing. The minimum number of points that may be elected each term is 12 and the maximum 17; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or more than seven hours of class and laboratory work combined. Students may not elect courses meeting consecutively at 11, 12, and 1 o'clock on the same day; one of these hours must be kept free.

BARNARD COLLEGE

All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements.

Any exception to these restrictions must have the approval of the Committee on Programs and Academic Standing.

COLUMBIA UNIVERSITY COURSES

Under certain conditions courses in other divisions of the University may be elected when an equivalent course is not offered at Barnard.

Graduate Faculties: Courses in the Faculties of Political Science, Philosophy, and Pure Science are open to qualified upperclassmen who need this work to achieve their specific objective in the major field. Such students must obtain the approval of the major adviser and the chairman of the Barnard department concerned. This privilege is intended primarily for members of the senior class.

Seniors with high academic standing may apply for permission to count up to 12 points of graduate work in the major field towards the graduate degree.¹ Those who wish to register for graduate courses to count towards a higher degree must comply with the following conditions:

1. The approval of the chairmen of the Barnard and Columbia departments, the Graduate Admissions Office, and the Committee on Programs and Academic Standing must be obtained in advance and filed in the Registrar's Office.
2. The student must be in her senior year.
3. The program for the term must not be in excess of 16½ points.
4. The points for graduate credit must be over and above the 120 points required for the A.B. degree.

Columbia College: Certain courses at Columbia College may be elected, in addition to those in this announcement. A list of these is provided by the Barnard Registrar.

School of General Studies: Courses in the School of General Studies which are not listed in this announcement may be elected with the approval of the class or major adviser and the Committee on Programs and Academic Standing. They will be credited towards the degree, if passed with a grade not lower than C. Fees for General Studies courses not listed in the Barnard announcement are paid for by the student herself, over and above the Barnard tuition, with the following exceptions:

¹ Financial aid is not applicable to fees for such work.

GENERAL INFORMATION

1. Courses which are essential to the major for which the approval of the major adviser and the Committee on Programs and Academic Standing is obtained.
2. Language courses not offered at Barnard, under special conditions to be reviewed by the Committee on Programs and Academic Standing.
3. Courses certified by the chairman of a department as essential to a program of work to be taken at Barnard in a particular field under the direction of the department.

Teachers College: Certain courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses are not included in the regular tuition, but are added to the Barnard bill.

SUMMER STUDY

A student will normally be expected to spend four years completing work for the degree; a maximum of 18 points may be earned in summer school under the following conditions:

The entire summer program must be approved in advance in writing, first by the class or the major adviser, and secondly by the chairman of the appropriate Barnard department. Programs must be approved and submitted to the Registrar before the last day of the Spring Term. Official reports of grades must be filed with the Registrar not later than October 15. Grades of Absent or Incomplete will not be honored after that date.

Not more than two one-term courses may be elected in any one summer session.

Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than B— will be credited toward the degree.

Grades will not be included in the Barnard average.

EXAMINATIONS

Examinations are scheduled at the end of each term. For the academic year 1966-67 they will be held on January 23–February 2, inclusive, and May 22–June 1, inclusive.

Deferred examinations, given in September and March, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or extreme family emer-

BARNARD COLLEGE

gency. Exceptions to these conditions can be made only by ruling of the Committee on Programs and Academic Standing in individual cases.

Absence for reasons of health on the day of an examination should be reported to the Office of the College Physician.

Examinations missed in January are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. A fee of \$5, payable in advance, is charged for each deferred examination. A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

QUIZZES

Instructors are not required to give make-ups to those absent from previously announced quizzes. In case an instructor is willing to give a make-up quiz, he is authorized to do so only if the student has submitted a medical certificate of illness approved by the College Physician, or evidence of other extenuating circumstances acceptable to the instructor.

DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time. (See College Calendar pages 5 and 6.)

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*, 3.25), with high distinction (*magna cum laude*, 3.50) and with highest distinction (*summa cum laude*, 3.75). Honors for students whose records include work done at other colleges require a slightly higher average. Departmental honors are awarded to graduates who have done distinguished work in their major fields.

DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. A program of not less than twelve points each term and an average of 3.40 for the year are required. Announcement of the list is made the following October.

GENERAL INFORMATION

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible.

ASSEMBLIES

College assemblies and academic meetings are held on Tuesdays at 1 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are expected to keep this hour free from other engagements.

HEALTH

The College Physician is responsible for the health of the college community. She is assisted by two consulting psychiatrists, a psychiatric counselor, and two nurses. Medical examinations at regular intervals are obligatory: December 15 is the final date for seniors for the completion of their examination; May 15 for freshmen. Students will not be permitted to register for the succeeding term until they have had this examination.

All students, residents, nonresidents, and commuters, must immediately report any illness, however minor, to the Medical Office. If resident students wish to have someone other than the College Physician care for them, their parents must address a request to the College Physician and send her the name and address of the doctor before registration.

HOUSING

Traditionally, Barnard has attracted students from all over the world as well as from its own community, New York City, and its suburbs. At present the College has academic facilities for 1,650 students, of whom 731 can be housed in the campus residence halls and the cooperative apartment building adjacent to the campus. Additional rooms are assigned by the College in two Columbia University residences, and further College owned and operated facilities are planned for the near future.

To keep Barnard a national college, resident spaces are assigned by the Director of Residence according to the following priority: incoming resident freshmen and resident upperclassmen; resident students returning from leaves of absence; nonresidents who have permission to change their status to residents; and commuters, who by special per-

BARNARD COLLEGE

mission may live on a temporary, semester basis in the dormitories without a change of housing status. If no vacancies remain in rooms assigned by the College, upperclassmen accepted as nonresident transfers are eligible for housing elsewhere, according to their housing classification.

Applicants for admission are expected to be familiar with Barnard's housing rules and are required to abide by them when enrolled at the College. No student may register for classes until her housing arrangements have been completed in accordance with the housing regulations. The Executive Secretary of the Housing Committee must know before academic registration each term where every student is living and must have any permission forms required of the student complete and on file. For resident students, for commuters living with their parents or legal guardians, and for married students living at the address to which their College bills are sent this is accomplished automatically by correct recording of their addresses at the time of academic registration. Any student who wishes to change her address at any time after her first registration for a given academic term (even when returning to her legal home¹) must, before moving, file with the Executive Secretary her new address and necessary permissions.

GENERAL REGULATIONS

Freshmen under 21 must live at home, with a close relative (parent, husband, grandparent, aunt or uncle, or brother or sister who is married or over 21), or in supervised College assigned housing.

Any student over 21 may live in housing not owned or assigned by the College if she wishes. The off-campus address must be entered on the permission form which is registered with the Executive Secretary of the Housing Committee, but parental signature is not necessary.

A married student is exempt from the regulations governing her housing classification but should complete a married student's form in the College Activities Office.

A senior, regardless of age or housing classification, who prefers to make independent, off-campus living arrangements may do so. Parental approval is necessary if the student is under 21. The College urges that parents personally inspect the proposed residence and come to the College to indicate that they will assume full responsibility for the student's health, safety, and finances. The College, however, will forward the permission form upon receipt of a letter explaining the parents' inability to visit the proposed residence.

¹ A "legal home" for a student under 21 is the residence of her parents or her legal guardian.

GENERAL INFORMATION

No exceptions to the foregoing off-campus housing regulations will be granted unless the Housing Committee considers the circumstances so unusual that they are not applicable to other students. Requests for exceptions must be sent in writing by a parent or legal guardian to the Executive Secretary of the Housing Committee.

A student who violates the housing regulations may be subject to suspension for a term or expulsion from the College.

HOUSING FACILITIES

College Owned and Operated Residences

Brooks, Hewitt, and Reid Halls, supervised dormitories at 3001 Broadway, are operated as one complex with space for 524 students from all classes. Rooms are singles, doubles, and triples. Freshmen are usually assigned to double rooms. All students living in these halls are required to take meals in the Hewitt dining room. Rooms are \$600 a year, board \$500 a year.

616 West 116th Street, an apartment-style supervised residence directly across the street from the other halls, provides housing for 207 upperclassmen in suites of single and double rooms accommodating five to six girls. Each suite has a kitchen in which students may prepare their own meals. If they wish, they may subscribe at \$500 a year to the College food plan and take meals in the Hewitt dining room by making arrangements with the Director of Food Services. Rooms are \$600 a year.

University Space Assigned by the College

The Fairholm, 503 West 121st Street, is a women's hostel owned and operated by Teachers College of Columbia University. Students have their own keys and are not subject to supervision. Assignments are made to commuters and nonresidents who have parental permission. Barnard rents 77 single rooms in housekeeping suites with prices ranging from \$240 to \$580 per year.

Johnson Hall, 411 West 116th Street, is a women's residence owned and operated by Columbia University in which Barnard reserves a few spaces. Barnard students assigned here must abide by the regulations governing all residents in the hall, which include a sign-out and curfew system. Singles and doubles range from \$400 to \$600 per year. The required Johnson Hall food plan, which consists of breakfast and dinner, is \$425 a year.

CLASSIFICATIONS FOR HOUSING

Students are classified as *residents*, *nonresidents*, or *commuters* when they enter Barnard. Their status may change (1) if the legal resi-

BARNARD COLLEGE

dence changes; (2) when they reach 21; (3) when they become seniors; or, (4) in the case of nonresidents, if they are assigned a room in one of the four residences owned and operated by the College.

Resident

A resident is a full-time student whose legal home is outside the commuting area (one and one-half hours from the College each way) and who is assigned a room by the Director of Residence in one of the four residences owned and operated by the College.

Nonresident

A nonresident is a student whose legal home is outside the commuting area (one and one-half hours from the College each way) who is not assigned space in one of the four residences owned and operated by the College. She must secure permission from the Executive Secretary of the Housing Committee to live elsewhere than in College-administered housing. Students under 21 who are assigned this status when they enter Barnard are required (1) to live either in The Fairholm or (2) Johnson Hall; (3) to obtain off-campus housing in a women's residence listed with the College; (4) to live with a close relative; or (5) to have a live-in job secured through the Barnard College Placement Office. The parent or legal guardian must submit a written request for one of the five types of off-campus housing listed above to the Executive Secretary of the Housing Committee by September 1 for the Autumn Term and by January 15 for the Spring Term. A Non-resident Housing Permission Card is then forwarded to the parent or guardian to be filled out, signed, and returned. Permission is official when the card is on file at the College. When space becomes available in one of the four residences owned and operated by the College, the student is offered College housing and, if she accepts, her housing classification changes to that of resident.

Resident seniors and resident students over 21 may become nonresidents under conditions described above. Sophomore and junior residents under 21 may, with parental approval, change to nonresident status by securing from the College an assignment in The Fairholm or Johnson Hall. They may also live in a women's residence listed with the College, or with a close relative, or they may obtain a live-in job through the Barnard College Placement Office.

Commuter

A commuter is a student whose legal residence is within one and one-half hours' distance from the College each way. The College will be the sole judge of what constitutes a commuting area.

GENERAL INFORMATION

Under certain conditions the College will accept living arrangements made by a sophomore, junior, or senior commuter away from her legal residence in view of the fact that her parents can readily inspect, approve, and take full responsibility for off-campus accommodations. To arrange for such special off-campus housing permission, the parent or legal guardian must come in person to the College before the student moves from her legal residence or from her previously approved off-campus residence to discuss the proposed plans. Appointments for housing interviews should be made with the Executive Secretary of the Housing Committee during the academic year and with the Chairman of the Housing Committee during the summer recess. If the arrangements are agreeable, the parent or legal guardian must sign a Commuter Housing Permission Card stating that he or she has seen the proposed residence and takes full responsibility for the student's health, safety, and finances. Permission is official when the card is on file at the College. The College strongly recommends that two or more students live together. Should a student return to her legal home, she must notify the Executive Secretary before moving.

Commuters are eligible for College-assigned housing only on a semester basis when space is available. They are not reclassified as residents. Priority is given to seniors, then juniors, sophomores, and freshmen, and the commuting distance and date of application are considered. If a commuter is given special permission for off-campus housing, her name will be removed from the waiting list for College-assigned rooms unless she specifically requests that it remain.

Financial Aid for Room and Board

Students admitted as residents whose academic records and financial situation make them eligible for financial aid from the College will have the cost of board and room considered in the award when they are living in Brooks, Hewitt, or Reid Halls, or in 616 West 116th Street and on the College meal plan. Students in "616" not on the College meal plan, as well as students assigned to the Fairholm who are eligible for financial aid, will have their need determined by the room rent and the cost of raw food. Those eligible for financial aid and living in Johnson Hall will have need computed on the basis of rent and required meal plan.

MARRIED STUDENTS

Students who plan to marry during the academic year and continue in college must notify the Dean of Studies in advance of the date of marriage. The College must receive assurance in writing from the student's parents or guardian that they are aware of her plans. Failure to comply with these conditions will make the student liable to dismissal.

BARNARD COLLEGE

Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

THE PLACEMENT OFFICE

The Placement Office, maintained by the College as a service to alumnae and students, offers assistance in planning for and obtaining full and part-time positions. Through personal interviews and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations which utilize their capabilities to the fullest extent.

The office, which is open throughout the year, keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to schools and organizations in business and professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee, a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Placement Office helps undergraduates to find part-time jobs both on and off the Barnard campus. Typical jobs include baby-sitting and tutoring and sales, clerical, and laboratory work. Freshmen are discouraged from undertaking employment, since it is difficult at first to estimate the amount of time that can be safely spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time employment amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$200.

Assistance in finding a summer job can be obtained through the Placement Office. Approximately 75 per cent of the Barnard students work during the summer and their earnings average about \$450.

VII. Courses of Instruction

The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. Fuller information can be obtained from the chairmen of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Autumn Term courses are marked by odd numbers, Spring Term courses by even numbers, year courses by consecutive odd and even numbers. An odd number followed by suffix **y** indicates a course given in the Spring Term. An even number followed by **x** indicates a course given in the Autumn Term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1—2). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if the written permission of the instructor is obtained.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition, 6 points. [**0**]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed

BARNARD COLLEGE

by the student in the Registrar's Office. A complete list of courses by examination groups is given on pages 197-199.

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered or indicate joint courses.

- C — Columbia College
- F — School of General Studies
- G — Graduate Faculties
- R — Program in the Arts
- V — Joint undergraduate course with Columbia
- W — Other inter-faculty course

The level of the course in general is indicated as follows:

- 1000-3999 Undergraduate
- 4000-5999 Graduate, open to qualified undergraduates
- 6000-8999 Graduate, normally not open to undergraduates

The symbol **x** follows the number of a course given in the Autumn Term; the symbol **y** follows the number of a Spring Term course.

INTERDEPARTMENTAL OFFERINGS

I. FOREIGN AREA STUDIES

Officer in charge for 1966-67, PROFESSOR ULANOV.

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The study is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. Accordingly, a student who majors in Foreign Area Studies plans her program in four aspects:

1. Command of at least one appropriate foreign language. The competence expected varies according to the language; for specific requirements consult the officer in charge. In addition to the language courses offered at Barnard, courses in other languages are available at Columbia University.
2. Acquaintance with the basic knowledge and methods of an academic department, such as history or literature, not necessarily with reference to a specific region. The major adviser helps in the choice of courses.
3. Courses on a region or country viewed through both the social sciences and the humanities, including the discipline chosen in the second aspect of the major. Courses are chosen in consultation with the major adviser.
4. A senior seminar or equivalent work under the direction of the Committee.

Foreign Area Studies majors are available in the following regions: England (see special program in British Civilization, page 53; Western Europe, with special reference to some one country; Russia; Asia, with special reference to certain regions (see Oriental Studies, page 125); and Latin America.

The major examination is in two parts, one examining knowledge of the chosen area in general and the other knowledge of the area in terms of the chosen discipline. Specially qualified students may be invited to write a senior thesis instead of the second part of the major examination.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the Committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge of Area Studies as early as possible. Before the junior year it is advisable for such students to complete as many of the college requirements as possible and to begin study of an appropriate foreign language.

BARNARD COLLEGE

II. AMERICAN STUDIES

This program is supervised by the Committee on American Studies:

BASIL RAUCH, Professor of History (Chairman; 420 Lehman Hall)

JOHN A. KOUWENHOVEN, Professor of English

BARBARA M. CROSS, Associate Professor of English

ANNETTE K. BAXTER, Assistant Professor of History

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

Students who wish to major in American Studies should obtain from the chairman of the committee an application form which is to be filled out and returned to him when major subjects are selected. Applicants must show special qualification for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete History 9–10 and 1–2, and at least two of the required basic courses. In the junior year majors should take the remaining two basic courses and American Studies 1, 2, and in the senior year the two advanced courses and American Studies 3, 4.

Required Courses:

History 9–10, History of the American Nation from Colonies to World Power
History 1–2, Modern European History

Basic and advanced courses in social sciences and humanities to be selected from a mimeographed list issued by the chairman. These courses are distributed as follows:

Two basic full-year courses in social sciences.

Two basic full-year courses in humanities.

One full-year advanced course in one of the social sciences in which a basic course was taken.

One full-year advanced course in one of the humanities in which a basic course was taken.

A research essay to be prepared in the senior seminar is required in lieu of the major examination.

1–2. Junior Readings. 6 points. [0]

Students will read selected classics in American Studies; brief written reports will be prepared for discussion. The aim of the course is to prepare the student to read, discuss, and write critically on interdisciplinary works.

Required of all junior majors in American Studies. Open to others by written permission of the chairman. PROFESSOR BAXTER. Bi-weekly meetings. Th 4:10–6.

3–4. Senior Seminar. 6 points. [0]

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will

INTERDEPARTMENTAL OFFERINGS

conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar. Required of all senior majors in American Studies. Open to others by special permission of the chairman. PROFESSOR RAUCH. W 4:10–6 and frequent conferences.

III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

DAVID A. ROBERTSON, JR., Professor of English (Chairman; 408C Barnard Hall)

ELEANOR ROSENBERG, Professor of English

CHILTON WILLIAMSON, Professor of History

SIDNEY A. BURRELL, Associate Professor of History

Open to students who are interested in an interdisciplinary approach to learning within a broad general area. Particularly emphasizes historical and literary traditions of British Civilization, but is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies.

A student who wishes to major in British Civilization must obtain the approval of the chairman of the committee before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing History 1–2. She should then plan, in consultation with her adviser, a program of study which will include:

- (a) The following required courses: History 11, 12; History G6327x–G6328y, Government 1; and a senior seminar;
- (b) A minimum of five additional half-year courses within the general area of British Civilization: one in the social sciences; two in English literature; and two, according to her special interests, in either the social sciences or the humanities.

Senior requirement: A thesis, the length and standards of which will be set by the committee.

85–86. Seminar in British Civilization. 6 points. [0]

Readings and discussion of selected problems in the development of British civilization. Open to majors in British Civilization and history majors on permission of the chairman. Prerequisite: History 11, 12. PROFESSOR ROBERTSON
Th 3:35–5:25.

IV. CONSERVATION OF NATURAL RESOURCES

This program is organized and administered by a committee of members of the Departments of Biology, and Geology-Geography.

LEONARD ZOBLER, Professor of Geography, Chairman

DONALD D. RITCHIE, Professor of Biology

HENRY S. SHARP, Professor of Geology

PATRICIA L. DUDLEY, Assistant Professor of Biology

BARNARD COLLEGE

The program is designed for students who have a vocational or an avocational interest in the earth as the home of man. In an urbanized society it is important to sharpen man's awareness of his dependence on natural resources. The ecology of human society is illustrated by the study of: the conservation of resources of soil, water, fisheries, range lands, forests, and minerals; concern for wildlife; protection of local and federal areas for public parks; and the threat of air and stream pollution and over-crowded cities to the survival of our way of life.

Students who wish to participate in the program should consult a member of the committee. The program is flexible enough to accommodate students interested in the scientific or politico-economic aspects of natural resources, as well as those who may wish to prepare for teaching.

The following courses are suggested for a major: Biology 1-2; 8; F1003x-F1004y; Geography 1; 3, 4; W4011x; W4012y; 59, 60; Geology 1, 2; W4330y or W4332y. The senior seminar in Natural Resources is required, and a summer course in field ecology and conservation is strongly recommended.

V. THE HERITAGE OF THE HUMANITIES

The following courses have been grouped together as illustrative of the diversified facets of our cultural heritage and traditions. For suggestions as to further development of this material, please consult the chairman of one of the humanities or social science departments. Course descriptions may be found in the departmental statements.

Art History 1-2. Introduction to the Study of Art History. 4 or 6 points. PROFESSOR NOVAK.

Classical Civilization 32. Classical Myth. 3 points. MR. SCHNEIDERMAN.

Classical Literature C3123x. Greek Drama and its Influences. 3 points. PROFESSOR GERSHENSON.

Classical Literature C3126y. Epic in Greece and Rome. 3 points. MR. VAIO.

English 82. Shapes of American Experience. 3 points. PROFESSOR KOUWENHOVEN.

[English 83. Modern Literature and the Allied Arts. 3 points. PROFESSOR ULANOV.

Not given in 1966-67.]

German 11, 12. Readings in Expository Prose. German Contributions to Modern Thought. 6 points. PROFESSOR BRADLEY.

History 7-8. Medieval History. 6 points. MRS. WEMPLE.

[Italian V1121x-V1122y. Italian Renaissance and its Classical Background (in English). 4 or 6 points. PROFESSOR LORCH.

Not given in 1966-67.]

INTERDEPARTMENTAL OFFERINGS

Music 1–2. An Introduction to Music. 6 points. PROFESSOR DORIS and
MISS CARPENTER.

Oriental Civilizations V3355x–V3356y. 8 points. PROFESSORS EMBREE,
KLASS, MESKILL, VARLEY, and WEBB, MESSRS. COHEN and GENTZLER.

Oriental Humanities. V3399x–V3400y. 8 points. PROFESSORS EMBREE,
HSIA, MESKILL, and MORRIS, DR. YAMPOLSKY, MRS. WAKIN, MESSRS. GENTZLER,
LARSON, and UNDERWOOD.

Philosophy 43, 44. Philosophical Implications of the Modern Novel. 6 points.
PROFESSOR BRENNAN.

Religion 25. Religion in Contemporary Society. 3 points. PROFESSOR
STAHMER.

Religion 26. Religion in Contemporary Culture. 3 points. PROFESSOR
STAHMER.

Spanish 13–14. The Culture of Spain. 4 points. PROFESSOR GARCÍA-LORCA.

**[Spanish 37, 38. Introduction to the Literature of Spain in Relation to the
Kindred Arts (in English). 4 points. PROFESSOR SERVODIDIO.**

Not given in 1966-67]

ANTHROPOLOGY

ASSOCIATE PROFESSORS: MORTON KLOSS (Chairman; 403 Lehman Hall), ABRAHAM ROSMAN

ASSISTANT PROFESSOR: PAULA G. RUBEL

ASSISTANT: BRUCE SCHROEDER

Anthropology is the study of the biological and cultural development of man, and of the contemporary variety of human societies and their cultures. The student majoring in this field will develop a perspective on man and his ways that is not bound by her own time and culture, and she will find herself drawing upon the literature of such different disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. While the study of anthropology contributes to a liberal arts education, the student will also receive adequate preparation for further study in graduate school, or for employment in the growing field of applied social change.

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. Anthropology 1,2 is required of all majors as a prerequisite to advanced work in the subject. All majors are also required to take at least one area course; courses in archaeology, linguistics and physical anthropology are recommended. In the junior year, a major will take Readings in Anthropological Theory (41-42), and in her senior year 51-52, a seminar for independent research.

In view of the incorporating and synthesizing nature of anthropology, majors will be urged to take well-balanced programs in the humanities, social and natural sciences, dependent upon the particular interests of the student.

Several major museums and libraries in New York offer exceptional opportunities for research. Various summer schools offer opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology will be encouraged, whenever possible, to conduct actual research among ethnic groups in the New York area or, during their summer vacations, in other localities.

In lieu of a major examination, each student in the required senior seminar (51-52) will write a senior thesis.

1, 2. Introduction to Anthropology. 6 points. [3]

The nature and diversity of man, his societies and cultures. Autumn Term: The problem of cultural diversity. Biological and cultural development examined in terms of evolutionary and ecological theory. Spring Term: The universals of culture. Comparative study of social, economic, and political organization, of religion, the arts and the individual; introduction to ethnological analysis and field research. Open to freshmen. Fulfills the requirement in contemporary society. PROFESSOR KLOSS and assistant. M W F 11.

V1004x. Peoples of Africa. 3 points.

Survey of African cultures, with intensive analysis of selected tribes and regions. PROFESSOR ROSMAN. M W F 3:10.

[9. Introductory Linguistics. 3 points.

Not given in 1966-67.]

[10. Linguistics: Structural Analysis. 3 points.

Not given in 1966-67.]

V3011x. Social Organization. 3 points.

The institutions and organization of social life, particularly in the non-literate societies. Kinship and locality in the structuring of society. PROFESSOR ROSMAN. M W F 1:10.

V3042x. Primitive Religion. 3 points.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. PROFESSOR KLASS. M W F 2:10.

[16. Comparative Cultural Systems. 3 points. PROFESSOR KLASS.

Not given in 1966-67.]

24. Peoples of Eurasia. 3 points. [5]

Survey of the culture areas of Europe and Asia, with intensive analysis of selected ethnographic studies. PROFESSOR RUBEL. M W F 2:10.

25. Peoples of the New World: North America. 3 points. [9]

Survey of the tribes and culture areas of aboriginal North America, with intensive analysis of selected ethnographic studies. PROFESSOR RUBEL. Tu Th 2:10-3:25.

28. Peoples of the Middle East. 3 points. [9]

Survey of culture areas from North Africa to Pakistan, with intensive analysis of selected studies. PROFESSOR ROSMAN. Tu Th 2:10-3:25.

SEMINARS AND READING COURSES

41-42. Readings in Anthropological Theory. 6 points. [0]

Selected readings in major theoretical concepts current in cultural and physical anthropology today. Required of all majors in their junior year. PROFESSOR RUBEL. Tu 4:10-6.

51-52. Anthropology Seminar. 6 points [0]

Independent reading and research, oral reports, and group discussion of problems and interests. The senior essay. Required for senior majors. PROFESSORS KLASS AND ROSMAN. Hours to be arranged.

BARNARD COLLEGE

COLUMBIA COURSES

The following undergraduate courses taught by the combined faculties of Columbia College and the School of General Studies are open to Barnard students, provided that permission is obtained from the chairman of the Barnard department. For details and hours of these courses see the Announcements of Columbia College or of the School of General Studies.

W3029y. Archaeology of the New World. .3 points.

W3032x. Archaeology of the Old World. 3 points.

W3037x. Societies in Transition. 3 points.

W3066y. Latin America, Prefield Orientation. 4 points. Prerequisite: permission of the instructor.

W3201x–W3202y. Physical Anthropology. 6 points.

W4123y. Culture and Society in the Caribbean. 3 points.

Certain graduate courses, listed in the Graduate Faculties announcement, are open to qualified majors with the consent of the department. Attention is drawn to the following:

G4181x. Functional analysis of primitive cultures.

[**G4187y. Peoples of South Asia. 3 points. PROFESSOR KLASS.**
Not given in 1966-67.]

G4190. Problems in diffusion and migration.

W4222. Racial and cultural minorities.

G4231x. Culture, health, and disease.

G4329x. The changing institutions of contemporary Africa.

ART HISTORY

PROFESSORS:¹ JULIUS S. HELD, MARION LAWRENCE (Chairman; 812 Schermerhorn Hall)

ASSISTANT PROFESSOR: BARBARA NOVAK

INSTRUCTOR: DAVID ROSAND

LECTURERS: ANN SUTHERLAND HARRIS, WILLIAM M. HINKLE

STUDIO ASSISTANT: SUSAN SOLLINS

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

PROFESSOR: EDITH PORADA

ASSOCIATE PROFESSOR: EVELYN HARRISON

ASSISTANT PROFESSORS: JAMES H. BECK, MIYEKO MURASE, DOROTHEA NYBERG

Art is a unique form of human expression. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulations of art in museums all over the world.

Courses in the history of art are generally of the lecture type. In several courses a third hour offers opportunities for discussions in small groups. Many courses schedule trips to museums and in other ways take advantage of the resources of New York, one of the world's great centers of art. Studio techniques are taught only in Course 1–2, but students are encouraged to take any course for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 62 for regulations governing these courses.

Majors in Art History are required to take the Seminar, 97–98, and courses in ancient, medieval, renaissance, baroque and modern art. Studio courses do not count towards the major. A reading knowledge of French, German, and Italian is highly desirable, especially for students who expect to do graduate work. Students expecting to specialize in the art of any one country should also acquire that language, i.e. for Spanish art, Spanish.

The major examination is in two sections of three hours each and is designed to test (1) the student's overall knowledge of the field, (2) her ability to analyze individual works of art, and (3) her competence in one special field, chosen by her in consultation with her major adviser and in which she has been working in the senior seminar.

1–2. Introduction to the Study of Art History. 4 points, or with laboratory, 6 points.

A general study of aesthetic problems in the visual arts as preparation for a more detailed study, including a discussion of the major problems of artistic expression

¹ Absent on leave, 1966–67.

BARNARD COLLEGE

and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers on buildings, sculpture, and paintings in New York. Laboratory work: An introduction to the technical problems of carving, clay modeling, graphic art, egg tempera, and oil painting with emphasis on two and three-dimensional design, also sketching from the living model and out of doors. Laboratory fee, \$5 per term.

This course satisfies the non-literature requirement in the humanities. PROFESSOR NOVAK. Lec. M W 2:10 Lab. (2 hours) Tu W 9-10:50, 11-12:50; Tu 2:10-4; 4:10-6; and if necessary W 3:10-5. MISS SOLLINS.

43, 44. Introduction to Ancient Art. 6 points. [4]

Autumn Term: A survey with emphasis on the major arts of architecture, painting and sculpture of Egypt, Mesopotamia, the early Aegean and archaic Greece. Spring Term: The art of classical and Hellenistic Greece and of Rome down to the time of Constantine. Either term may be taken separately. PROFESSOR HARRISON. M W F 1:10. Visits to the Metropolitan Museum of Art at hours to be arranged.

51, 52. Medieval Art. 6 points. [5]

Autumn Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, then the Celtic, Carolingian and Romanesque styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France and Gothic architecture, sculpture, and painting, ending with the introduction of the Italian Renaissance into France. Open to all except freshmen. Course 51 is prerequisite to Course 52. PROFESSOR LAWRENCE. M W F 2:10. Visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2:10, or at hours to be arranged.

61. European Architecture from the Renaissance through the Rococo Style. 3 points. [6]

The developments of Renaissance, Baroque and Rococo architecture in Italy, France, Germany, and England from the fifteenth century to the mid-eighteenth. Among the architects to be studied will be Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, François Mansart, Hardouin-Mansart, Inigo Jones, Wren, Neumann, and Boffrand. Open to all except freshmen. PROFESSOR NYBERG. Tu Th 9-10:25.

63. Italian Renaissance Sculpture. 3 points. [13]

Major developments in European sculpture beginning with the Pisani, followed by the Italian Renaissance masters of the fifteenth century, and concluding with a thorough study of Michelangelo. Open to all except freshmen. PROFESSOR BECK. Tu 3:10-5, Th 3:10-4.

[64. European Sculpture, Baroque to Modern. 3 points. PROFESSOR BECK. Not given in 1966-67.]

- 65. Renaissance Painting in Northern Europe.** 3 points. [9]
 Painting of the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. DR. HINKLE. Tu Th 2:10 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.
- 66. Italian Renaissance Painting.** 3 points. [9]
 The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian. Open to all except freshmen. DR. HARRIS. Tu Th 2:10 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.
- [68. **Prints and Drawings.** 3 points. PROFESSOR HELD.
 Not given in 1966-67.]
- 70. European and American Architecture from the Eighteenth into the Twentieth Century.** 3 points. [6]
 The development of Neoclassical architecture in eighteenth-century Europe, and its influence on American architecture; the interaction of historical styles and new structural techniques in the nineteenth century; Louis Sullivan and the development of the skyscraper in America; finally, American and European architecture of the twentieth century. Open to all except freshmen. PROFESSOR NYBERG. Tu Th 9-10:25.
- 75, 76. European Painting since the Renaissance.** 6 points. [8]
 Autumn Term: Mannerism, Baroque, and Rococo (El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt, Watteau), the influence on art of the Counter-Reformation and Absolutism. Spring Term: Neoclassicism, Romanticism (David, Goya, Delacroix), Realism, Impressionism, and the different trends of the twentieth century (Courbet, Manet, Cézanne, Van Gogh, Picasso, Klee). Open to all except freshmen. Course 75 is prerequisite to Course 76 except on written permission of the instructor. DR. ROSAND. Tu Th 10:35-11:50.
- 77. American Art from Colonial Times to the Armory Show.** 3 points. [10]
 The development of the arts in America from colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. PROFESSOR NOVAK. M W 3:10-4:30.
- 78. Modern European and American Painting.** 3 points. [10]
 Fauvism, Cubism, Dada, Surrealism, abstract art and other twentieth century movements. The impact of radical European innovation in America during and after the Armory Show, and the evolution of a variety of native styles from Marin and Hopper through abstract expressionism to the present. Open to all except freshmen. PROFESSOR NOVAK. M W 3:10-4:30.

BARNARD COLLEGE

- 81. The Literature of Art.** 3 points. [2]
Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Burckhardt, Wölfflin, Worringer, Berenson, Fry, Panofsky and Malraux). Visual material will be discussed. Intended for junior majors, but also open to senior majors. PROFESSOR NOVAK. W 10-12.
- 83. Masterpieces of Art in the New York Museums.** 3 points. [13]
Designed to acquaint students with some of the great artistic treasures assembled in New York and to sharpen their aesthetic and historical understanding through the study of the originals themselves. Open only to majors. Limited to 15 students. DR. HARRIS. W 4:30-6, F 3:30-5.
- 91, 92 (F3200y). Oriental Art.** 6 points. [3]
Autumn Term: the arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting, frescoes, and minor arts. Spring Term: the arts of China and Japan, with attention to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period; in Japan, Buddhist architecture and sculpture, and the later scrolls, screens and prints. Open to all except freshmen. Either term may be taken separately. Winter term: PROFESSOR PORADA. Spring term: PROFESSOR MURASE. M W F 11. Conferences and visits to the Metropolitan Museum of Art at hours to be arranged.
- 97-98. Seminar for Majors.** 6 points. [12]
A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classical archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports by students on problems of general interest and one long or two short papers on material in the special field chosen by the student. Required of all majors in their senior year. PROFESSOR LAWRENCE. Th 4:10-6.

STUDIO COURSES

A maximum of 12 points of studio work may be credited. Students taking more than 6 points of studio work are required to validate the additional points with courses in Art History. Students may register only with written permission of the departmental representative (PROFESSOR RACZ, 410 Low Library and, after 6 points with that of PROFESSOR LAWRENCE as well). For further details see the Bulletin of the School of the Arts.

Drawing R1001x, R1002y; R1003x, R1004y. Drawing Workshop. 6 or 4 points.

Model fee, \$8.00 per term. PROFESSORS GREENE and RACZ, and MESSRS. GOLDIN and LEIPZIG. Section I Tu Th 1:10-4. (6 points). Section II M W 7:10-10 p.m. (6 points). Section III Tu Th 7:10-10 p.m. (6 points). Section IV M 1:10-5. (4 points). Section V W 1:10-5. (4 points).

Painting R1011x, R1012y; R1013x, R1014y. Painting Workshop. 6 or 4 points.

Model fee, \$8.00 per term. PROFESSORS GREENE and HELIKER, and MESSRS. GOLDIN, GOLFINOPOULOS, MOY, and MURCH. Section I M W 9–11:50. (6 points). Section II M W 1:10–4. (6 points). Section III Tu Th 1:10–4. (6 points). Section IV M 6:10–10 p.m. (4 points). Section V W 6:10–10 p.m. (4 points). Sections VI and VII S 9–12:50. (4 points).

Sculpture R1023x, R1024y. Clay Modeling and Drawing. 6 points.

Model fee, \$8.00 per term. MR. SWARZ and -----, Section I M W 7:10–10 p.m. Section II Tu Th 7:10–10 p.m.

Sculpture R1025x, R1026y. Carving and Design. 6 points.

Laboratory fee, \$8.00 per term. MR. SWARZ. Tu Th 9–11:50.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the chairman of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. The following courses are specifically recommended as suitable for Barnard seniors:

G4065x. The Art of Oceania. PROFESSOR FRASER. W 7:10–9.

G4075y. The Art of Negro Africa. PROFESSOR FRASER. M 7:10–9.

G4128y. Imperial Art in Asia, 16th to 17th century. PROFESSOR MAHLER. Th 2:10–4.

G4204y. Greek and Roman Painting. PROFESSOR BRENDL. F 10–11:50.

G4215x. Greek Myths and Monuments. DR. HENLE. Th 6:10–8.

G4266x. Roman Art from the Republic to the end of the Flavian Dynasty. PROFESSOR BRENDL. F 10–11:50.

G4350x. Romanesque Art in Italy. PROFESSOR LAWRENCE. Th 10–11:50.

G4375x. Gothic Art in the thirteenth century. PROFESSOR BRANNER. W 10–11:50.

G4585y. English Architecture of the 17th and 18th centuries. PROFESSOR WITTKOWER. M 4:10–6.

G4660x. Modern Architecture. PROFESSOR COLLINS. Th 10–11:50.

BIOLOGY

PROFESSORS: ¹JOHN A. MOORE, DONALD D. RITCHIE (Chairman; 316 Milbank Hall)

ASSOCIATE PROFESSOR: WILLIAM A. CORPE

ASSISTANT PROFESSORS: JOAN ABBOTT, PATRICIA L. DUDLEY, JOSEPH A. ERWIN, FREDERICK E. WARBURTON

ASSISTANTS: LUCILLE W. PLOTZ, THERESA L. WHITESIDE

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSOCIATE PROFESSOR: FRANK G. LIER

ASSISTANT PROFESSOR: DAVID ZIPSER

The major program is designed to serve a variety of needs. Some students major in biology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in biology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend on the ultimate aims of the student and will be planned in consultation with members of the department. The most important thing to keep in mind is that careful planning of the entire course sequence in biology and related fields is necessary to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

Course 1–2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. Students who have taken either a high school course based on the BSCS curriculum, or an Advanced Placement Biology course, may with the permission of the department elect other courses. Some courses taken outside the department may be counted toward a biology major.

Chemistry 1, 8, and 41 fulfill the minimum requirements in chemistry for graduate work in biology and for entrance into medical school, and this amount is generally regarded as the minimum for biology majors as well. A year of general physics, 3–4, should be taken by majors who plan on graduate work or a career in medicine. Graduate work in biology requires a knowledge of German and French (or some other modern language). College mathematics, including calculus, is strongly recommended.

Students are encouraged to do summer work in biological laboratories or field stations. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund or the Herbert Maule Richards Fund.

The major examination in biology consists of questions selected from a list covering many aspects of modern biology, and the Graduate Record Examination.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

¹ Absent on leave, 1966-67.

1-2. General Biology. 8 points. [1]

The development of biological knowledge, with emphasis on unsolved problems and the nature of scientific evidence; energy relations of living things, inheritance, development of individuals, evolution, cellular activities. PROFESSOR RITCHIE AND STAFF. Lec. M W F 9. Lab. (3 hours) M 1:10-4; Tu 9-11:50; 2:10-5; W 1:10-4; Th 9-11:50; 2:10-5; F 1:10-4.

1a-2a. General Biology. 6 points [1]

Lectures identical with those of Course 1-2, but without laboratory. M W F 9.

F1003x-F1004y. Plant Geography. 6 points

Distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants. Prerequisite: Course 1-2. Registration limited. Admission only on written permission of the instructor. PROFESSOR LIER. M Th 6:10 p.m. Field work at hours to be arranged.

5. Genetics. 4 points. [1]

A discussion of the inheritance, structural basis, and mode of action of genetic material. PROFESSORS WARBURTON AND ZIPSER. Lec. M W 9. Lab. (4 hours) Tu 2:10-6; W 1:10-5.

6. Evolution. 4 points. [1]

A consideration of the theories and data relevant to the origin and evolution of living forms, with emphasis on animals. PROFESSOR WARBURTON. Lec. M W 9. Laboratory-conferences (4 hours) W 1:10-5.

7. Invertebrate Zoology. 4 points. [2]

Evolution of invertebrate animals. Comparative study of microscopic and gross structure, physiology, life histories, behavior and distribution of invertebrates. Major emphasis on evolution. Some field trips to representative habitats. Prerequisite: A year of college-level biology. PROFESSOR DUDLEY. Lec. W F 10. Lab. (4 hours) M 1:10-5 or Th 2:10-6.

8. Ecology. 4 points. [4]

The interaction of invertebrate and vertebrate animals with their physicochemical and biological environment. Dynamics of population structure, rhythms, behavior, competition, and adaptation. Prerequisite: a year of college-level biology. PROFESSOR DUDLEY. Lec. M W F 1:10. Field trips to be arranged.

9. Cytology. 5 points. [7]

The biology of cells: composition, development, and activities of cell walls, membranes, mitochondria, plastids, and chromosomes. Laboratory includes practice in fixation, sectioning, homogenization, smears, photomicrography, and specialized types of microscopy. Prerequisite: a year of biology with laboratory. Permission of instructor required. PROFESSOR RITCHIE. Tu Th 10. Lab (6 hours) individually arranged.

10. Elementary Microbiology. 4 points. [5]

Introduction to study of bacteriological methods, representative types of microorganisms, and their importance in human economy. PROFESSOR CORPE. Lec. M W 2:10. Lab. (4 hours) M W 3:10-5.

BARNARD COLLEGE

- 14. Developmental Biology.** 4 points. [8]
A survey of the embryonic development of invertebrates and vertebrates and a discussion of the theories advanced to explain development and cellular differentiation. PROFESSOR ABBOTT. Lec. Tu Th 11. Lab. (4 hours) Tu 2:10–6. W 1:10–5 or F 1:10–5.
- 16. Cellular Physiology.** 6 points. [4]
An interpretation of vital phenomena at the cellular level in terms of the known laws of physics and chemistry. Topics to be discussed include bioenergetics (fermentation, respiration and photosynthesis); the physiology of enzymes (structure, activity, biosynthesis and regulation) and the physiological properties and molecular biology of membranes (molecular structure, permeability, active transport, pinocytosis and bioelectric potentials). Prerequisite: course 1–2; physics 3–4; chemistry 42 (preceding or parallel); or permission of the instructor. PROFESSOR ERWIN. Lec. M W F 12:45–2.00 Lab. (4 hrs.) M 2:10–6; Tu 2:10–6.
- 61, 62. Problems in Zoology.** [0]
Independent work will be planned to suit the needs of the student after consultation with the instructors. PROFESSOR ERWIN AND STAFF. Hours and credit by arrangement.
- 71. Senior Seminar.** 2 points. [0]
Reading of literature and discussion of fundamental problems of zoology. PROFESSOR ERWIN. Hours by arrangement.
- G6151x. General Microbiology.** 5 points.
Morphology and chemical and physical structure of microbial cells; growth and general physiology; and the influence of environment on nutrition, enzymes, and metabolism of representative microbial species. Students who wish to take the lectures only, see Course G6451 below. Prerequisite: one year of college biology, one course in organic chemistry (certain exceptions are allowed), and the instructor's permission. PROFESSOR CORPE. Lec. Tu Th 2:10. Lab. Tu Th 3:10–5 and 1 hour to be arranged.
- G6451x. General Microbiology.** 3 points.
The lectures of G6151. Prerequisite: one course in microbiology with laboratory (certain exceptions allowed), and the instructor's permission. PROFESSOR CORPE. Tu Th 2:10.
- G6152y. Advanced Microbiology.** 5 points.
Nature, function, and biosynthesis of ultrastructural components of microbial cells. Selected topics of current importance in bacterial physiology will be considered. Students who wish to take the lectures only, see G6452 below. Prerequisite: Course G6151 or the equivalent, and the instructor's permission. PROFESSOR CORPE. Lec. Tu Th 2:10. Lab. Tu Th 3:10–5 and 1 hour to be arranged.
- G6452y. Advanced Microbiology.** 3 points.
The lectures of G6152. Prerequisite: one year of bacteriology with laboratory, and the instructor's permission. PROFESSOR CORPE. Tu Th 2:10.

CHEMISTRY

PROFESSORS: ¹EDWARD J. KING, EMMA D. STECHER (Acting Chairman; 405 Milbank Hall)

VISITING ASSOCIATE PROFESSOR: BALU VENKATARAMAN

ASSISTANT PROFESSORS: ALBERT H. GAWER, BERNICE SEGAL

LECTURER: ¹GRACE W. KING

ASSISTANTS: JUDITH S. JOSEPH, CECILE G. LICHTENSTEIN, SU-CHU TSO

Chemistry majors seek to understand the structure of proteins, why nickel chloride is green, how xenon reacts with fluorine, the peculiar bonds in boron hydrides and benzene, and other aspects of the nature of substances and their transformations. Chemists have taken a leading part in the development of our modern scientific and technological society. The influence of chemistry on other sciences is indicated by the growth of such advanced disciplines as biochemistry and molecular biology, chemical physics, and geochemistry. Upon graduation, some chemistry majors obtain research positions in chemical industry and medical laboratories. Others become technical writers or editors or science librarians. Many continue with graduate work in chemistry or related sciences or enter medical and other professional schools.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Course 1–8 and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. Students who have taken an Advanced Placement Course in secondary school may be given advanced placement and credit if they obtain a score of 4 or 5 on the examination and present evidence of satisfactory laboratory experience. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Experience with modern instruments begins in the first-year course. Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

1. General Elementary Chemistry. 4 points. [6]

A study of chemical principles with applications to inorganic chemistry. No credit will be given for Course 1 unless Course 2 or Course 8 is completed. PROFESSOR VENKATARAMAN, MRS. JOSEPH, and MRS. LICHTENSTEIN. Lec. Tu Th 9:10–10:25.

Recitation and laboratory for students with no previous chemistry: M 1:10–4:30
Recitation and laboratory for all other students, one afternoon: Tu 2:10–5:30
or W, Th, or F 1:10–4:30.

¹ Absent on leave, 1966–67.

BARNARD COLLEGE

- 2. General Chemistry.** 4 points. [1]
Properties of inorganic, organic, and biochemical systems are surveyed and interpreted. A terminal course for non-science majors. Prerequisite: Course 1. PROFESSOR VENKATARAMAN, MRS. JOSEPH, and MRS. LICHTENSTEIN.
Lec. M W F 9. Recitation and laboratory: one afternoon M 1:10–4:30 or Tu 2:10–5:30.
- 1a–2a. General Elementary Chemistry.** 6 points.
Lectures and recitations identical with those of Course 1–2. No laboratory work. Prerequisite: preceding or parallel, a laboratory science. PROFESSOR VENKATARAMAN and MRS. LICHTENSTEIN.
Winter Term: Lec. Tu Th 9:10–10:25; recitation hour M 1:10 or Tu 2:10. [6]
Spring Term: Lec. M W F 9; recitation hour M 1:10 or Tu 2:10. [1]
- 8. Qualitative Analysis and Electrolytic Solutions.** 5 points. [6]
A study of ionic compounds and ionic equilibria. Prerequisite: Course 1. Course 8 is a prerequisite for further work in chemistry. PROFESSOR SEGAL, MRS. JOSEPH, and MRS. LICHTENSTEIN. Lec. Tu Th 9:10–10:25. Laboratory one afternoon: W, Th, or F 1:10–5.
- 41. Organic Chemistry.** Lectures (41a, 4 points). Laboratory (41b, 2 points). [3]
Typical reactions of aliphatic compounds with an introduction to aromatic chemistry. Laboratory work in organic preparations. This course satisfies the minimum requirement for many medical schools. Prerequisite: Course 8. Laboratory deposit, \$20. PROFESSOR STECHER and MRS. TSO. Lec. M W F 11–12:10. Lab. M or W 1:10–5 or Tu 2:10–6.
- 42. Organic Chemistry.** Lectures (42a, 4 points). Laboratory (42b, 2 points). [3]
Lectures emphasize aromatic chemistry and modern theories. Laboratory work includes an introduction to qualitative and quantitative organic analysis and to advanced techniques, including instrumental and chromatographic methods, with a library problem and a short project. Majors must take the laboratory course. Prerequisite: Course 41. Laboratory deposit, \$20. PROFESSOR STECHER and MRS. TSO. Lec. M W F 11–12:10. Lab. Tu Th 2:10–6, and, if warranted by the registration, M W 1:10–5.
- 51. Chemical Thermodynamics and Kinetics.** 3 points. [2]
The laws of thermodynamics and their application to chemical systems; kinetic molecular theory; rates of chemical reactions; crystals. Chemistry majors should take Course 57 in parallel. Prerequisite: Course 8; Mathematics 15, 16; Physics 3–4. PROFESSOR SEGAL. Lec. M W F 10.
- 52. Electrochemistry and Electrolytes.** 3 points [7]
Thermodynamics of heterogeneous systems, nonelectrolyte and electrolyte solutions, and surfaces; electrochemistry; analytical processes. Prerequisite: Course 51. PROFESSOR GAWER. Lec. Tu Th 10:35–11:50.
- 54. Atomic and Molecular Structure.** 3 points. [2]
Introduction to quantum and statistical mechanics and chemical bonding. Prerequisite: Course 51. PROFESSOR SEGAL. Lec. M W F 10.

57. Physical Chemistry Laboratory. 3 points. [0]

Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Prerequisite: Course 8; Mathematics 15, 16; Physics 3-4. Parallel: Course 51. Laboratory deposit, \$20. PROFESSOR GAWER. Lab. M W 1:10-4 or Tu Th 2:10-5.

58. Advanced Analytical Laboratory. 3 points. [0]

The quantitative investigation of chemical systems; instrumental methods of analysis; construction and characteristics of electronic circuits of instruments. Prerequisite: Courses 51 and 57. Preceding or parallel: Course 52. Laboratory deposit, \$20. PROFESSOR GAWER. Lab. M W 1:10-4 and, if warranted by registration, Tu Th 2:10-5.

63. Advanced Laboratory Course. 2 or 3 points. [0]

Laboratory investigations arranged to suit the individual student who seeks more experience in synthetic inorganic or organic chemistry or who wishes to explore more thoroughly selected instrumental methods. Prerequisite: three years of college chemistry. Laboratory deposit, \$20. PROFESSOR GAWER. Hours and credit to be arranged.

C3072y. Introductory Biochemistry. 3 points.

Mechanistic and quantitative aspects of intermediary metabolism, with some discussion of macromolecular properties. Prerequisite: Course 42. PROFESSOR BRESLOW. Tu 9-10:50 and Th 10.

[85. Organic Chemistry, Advanced Course. 3 points. PROFESSOR STECHER.

Not given in 1966-67.]

87, 88. Problems in Chemistry. 2 to 6 points. [0]

Advanced individual laboratory projects for students who have completed the major requirements. Laboratory deposit, \$20 each session. PROFESSORS STECHER, SEGAL, and GAWER. Hours and credit by arrangement.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors.

DRAMA

DIRECTOR OF THE MINOR LATHAM PLAYHOUSE: KENNETH H. JANES (218 Milbank Hall), Associate Professor of English

TECHNICAL DIRECTOR: ELLEN TERRY, Instructor in English

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult PROFESSOR JANES.

Students take part in the productions of *Wigs and Cues*; the *Gilbert and Sullivan Society*; the experimental and classical drama workshops; the Spanish, French, German, and Italian Clubs; and the several dance and music groups. The *Barnard Bulletin's* dramatic column and WKCR (the Columbia radio station) offer other opportunities to develop abilities related to the theatre arts. Barnard's location in New York enables students to attend productions on and off Broadway.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements:

ENGLISH

- 13, 14. Dramatic Writing. 6 points. PROFESSOR TEICHMANN.
21. Voice and Diction. 3 points. PROFESSOR NORMAN and MISS CAUGHRAN.
- 23, 24. Oral Interpretation of Literature. 6 points. MISS CAUGHRAN.
- 27, 28. Public Speaking. 4 points. PROFESSOR NORMAN.
- 33, 34. Play Production. 6 points. PROFESSOR JANES and MISS TERRY.
- 35, 36. The Actor's and Director's Interpretation of Dramatic Literature. 4 points. PROFESSOR JANES.
- R4201x, R4202y. A Survey of Theatre History. 6 points. DR. BARROW.
- 63, 64. Shakespeare and the Elizabethan Mind. 6 points. PROFESSORS ROBERTSON and HOOK.
69. English Drama from its Beginnings to 1642. 3 points. PROFESSOR PATTERSON.
70. English Drama from the Restoration to the End of the Eighteenth Century. 3 points. PROFESSOR HOOK.
86. Drama from Ibsen to the Present. 3 points. PROFESSOR ULANOV.

FRENCH

- 17-18. French Phonetics. 6 points. PROFESSOR PLEASANTS.
- [39. Twentieth Century (I) 2 points.
Not given in 1966-67.]

DRAMA

GERMAN

- [25, 26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. PROFESSOR STABENAU.
Not given in 1966-67.]

GREEK AND LATIN

- Classical Literature C3123x. Greek Drama and its Influences. 3 points.
PROFESSOR GERSHENSON.
Greek V3305x. Tragedy. 3 points. PROFESSOR BACON.
[Greek V3307x. Greek Comedy. 3 points. PROFESSOR BENEDICT.
Not given in 1966-67.]

ITALIAN

- [V3642y. The Italian Theatre. 3 or 4 points. PROFESSOR LORCH.
Not given in 1966-67.]

MUSIC

- V1005y. The Opera. 3 points PROFESSOR LUENING.
V1109x, V1110y. History of Dance. 4 to 6 points. MRS. ROOSEVELT and
MR. SORELL.

PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in modern dance and fencing are particularly useful.

SPANISH

- 21–22. The Spanish Drama. 6 points. PROFESSOR UCELAY DA CAL.

ECONOMICS

PROFESSORS: MARION HAMILTON GILLIM, RAYMOND J. SAULNIER (Chairman; 410 Lehman Hall)

ASSISTANT PROFESSOR: JEAN WILBURN

INSTRUCTOR: DEBORAH D. MILENKOVITCH

ASSISTANT: —————

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:
PROFESSOR AARON W. WARNER

As a major in economics, a student may arrange a program to suit her special needs and interests. For those planning graduate study in economics, special attention to economic analysis and research methods is recommended. A diversified program can be arranged for students going into other professional schools or directly into careers in business, research, government, or teaching and for those seeking an understanding of economics as a basis for informed citizenship.

A student majoring in economics will be required to take Courses 1–2; 27 or 28; and 51–52. Courses 7–8 and 17, 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

Each student in the required senior seminar will write an essay. There will be no major examination.

1–2. Introductory Economics. 6 points.

A study of the institutions and forces affecting the stability and growth of income and employment. Subjects covered include: business and labor organizations; national income and its determination; economic theory; economic fluctuations; monetary economics; government finance; international economic relations; and the problems of underdeveloped countries. May be counted towards the requirement in contemporary society. PROFESSORS GILLIM and WILBURN and MRS.

MILENKOVITCH. Section I M W F 10. [2] Section II M W F 11. [3]
Section III M W F 1:10. [4] Section IV M W F 2:10. [5]

7–8. Development of the American Economy. 6 points. [4]

A study of the development of economic institutions in the United States from the colonial period to the present time. Changes in the structure of market demand, in costs and in technology will be examined for their effect in bringing about changes in industrial and financial institutions. The focus of interest will be on the enterprise system and the evolving role of government in it. PROFESSOR WILBURN. M W F 1:10.

[10. Introduction to Mathematical Economics. 3 points.

Not given in 1966-67.]

- 15. Government Finance and Fiscal Policy.** 6 points. [9]
Principles of government expenditure and taxation, and the American systems of spending and taxing. Government debt, government finance in relation to the distribution of national income and wealth and to economic growth and stability, and intergovernment fiscal relations in the United States and in common markets. Prerequisite: Course 1–2 or permission of instructor. PROFESSOR GILLIM. Tu 2:10–4.
- 17, 18. Introductory Statistics.** 6 points. [1]
Autumn Term: The gathering, processing, presentation, and analysis of statistical data; linear correlation; and an introduction to statistical inference. *Spring Term:* Index numbers; time series; nonlinear correlations; and other techniques useful in the social sciences. Course 17 is a prerequisite of Course 18. PROFESSOR GILLIM. Lec. M W 9. Lab. (2 hours) M 2:10–4 or Tu 2:10–4 or 4:10–6.
- [19. Labor Economics.** 3 points.
Not given in 1966-67.]
- [20. Corporate Financial Policies.** 3 points.
Not given in 1966-67.]
- [23. International Economics.** 3 points. PROFESSOR GILLIM.
Not given in 1966-67.]
- 24. The Latin American Economy.** 3 points. [9]
Economic developments, methods of economic planning and the trend toward regional integration. Topics will include: development financing; monetary instability; international payments imbalances; rural poverty; goals and problems of a Latin American common market. Open to juniors and seniors with 9 points of economics or permission of the instructor. PROFESSOR GILLIM. Tu 2:10–4.
- 25, 26. Contemporary Economic Issues.** 6 points. [5]
A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. May be counted towards the requirement in contemporary society. Open to all except freshmen. Either term may be taken separately. PROFESSOR SAULNIER. M W 2:10–3:25.
- 27, 28. Economic Analysis.** 6 points. [2]
Covers the major topics of microeconomic and macroeconomic theory in successive semesters. Prerequisite: Course 1–2. PROFESSOR WILBURN. M W F 10.
- 29. The Economics of Underdeveloped Areas.** 3 points. [8]
The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. Prerequisite: Course 1–2; Course 23 or its equivalent is strongly recommended. MRS. MILENKOVITCH. Tu Th 10:35–11:50.

BARNARD COLLEGE

30. Comparative Economic Systems. 3 points. [8]

An economic analysis of the principles of planned and market economies. The economic systems are compared from a theoretical point of view and from the study of four typical economies: United States, Soviet Union, France, and Yugoslavia. MRS. MILENKOVITCH. Tu Th 10:35–11:50.

51–52. Economics Seminar. 6 points. [0]

Reading, reports, and discussion centering around the preparation of a senior essay. Required for senior majors. PROFESSOR SAULNIER. W 3:30–5:30.

61, 62. Studies in Economics. Variable points. [0]

Additional credits may be obtained in this course for independent work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The course may be repeated. MEMBERS OF THE DEPARTMENT.

G4713x, G4714y. Financial Institutions. 6 points.

A study of the functioning of the principal public and private agencies comprising the financial system of the United States from the point of view of their relation to the flow of money payments and the process of capital formation. Open to seniors. Prerequisite: Course 1–2 and at least two other courses in economics. Either term may be taken separately. PROFESSOR SAULNIER. Tu 2:10–4.

W3212y. Introduction to Mathematical Economics. 3 points.

The application of mathematical techniques to economic analysis. The theory of the firm and competition; theory of demand; static macroeconomic models. Mathematical tools are developed as needed. Instructor's permission required. INSTRUCTOR and time to be announced.

W3251x. Industrial Organization and Public Control of Industry. 3 points.

Organization and structure of American industries and their markets. Competitive behavior, pricing policies and market performance. Antitrust policy and leading antitrust cases. A research paper is required. Prerequisite: Course 1–2. PROFESSOR WARNER. M W 1:10–2:25.

W3253y. Seminar in Public Regulation of Industry. 3 points.

Readings and reports on selected problems of government regulation in communications, transportation, public utilities and other regulated industries. A research paper is required. Prerequisite: Course W3251x and the permission of the instructor or departmental adviser and the chairman of the Barnard department. PROFESSOR WARNER. Tu 2:20–4.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors. A description of these courses will be found in the Announcements of the Graduate Faculties and the Graduate School of Business.

EDUCATION

The following interdepartmental program is supervised by the Committee on Education:

- ¹ HELEN P. BAILEY, Dean of Studies, Professor of French, *ex officio*
- JOSEPH G. BRENNAN, Professor of Philosophy
- LAWRENCE A. CREMIN, Frederick A. P. Barnard Professor of Education, Columbia University
- PATRICIA ALBJERG GRAHAM, Assistant Professor of Education (Chairman; 106 Barnard Hall)
- RICHARD A. NORMAN, Associate Professor of English
- BARBARA S. SCHMITTER, Acting Dean of Studies, Assistant Professor of Psychology, *ex officio*
- CHILTON WILLIAMSON, Professor of History
- RICHARD P. YOUTZ, Professor of Psychology
- LEONARD ZOBLER, Professor of Geography

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard seniors whose applications are approved by the Committee on Education. With the psychology prerequisite (four points to be distributed among Psychology 5; 5a; 27; 27a) it affords 15 points towards provisional certification for teaching in junior and senior high school in New York State. Full provisional certification in New York and other states requires courses of study beyond the Barnard offering.

All students are enrolled in Education 3–4 which is directly concerned with the principles and practice of classroom teaching. In addition, they take either History 43 in the Autumn Term or Philosophy 84 in the Spring Term.

Before the end of the sophomore year, students interested in teaching should confer with the director of the Education Program. Juniors who wish to apply for admission to the program should file application forms which may be obtained in the office of the Education Program during the Autumn Term.

Education 3–4. Introduction to Teaching in the Secondary School. 1 to 8 points. [13]

This course affords observation and student teaching in public and private schools. The accompanying seminar examines contemporary issues in American education. Individual conferences assess pedagogical problems encountered in student teaching. The point value is determined by the time in which student teaching is done, either two half days per week during both terms or four half days per week during one term. Typically the student will participate in the seminar during both terms. Prerequisite: Admission to Education Program. PROFESSOR GRAHAM. Seminar: Tu 4:10–6.

History 43. History of Education in the United States. 3 points. [5]
The development of American education in the context of social and intellectual history. PROFESSOR GRAHAM. M 2:10–4.

Philosophy 84. Philosophy of Education. 3 points. [4]
The values and goals of education; a study of contemporary problems against their historical background. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. PROFESSOR BRENNAN. M W F 1:10.

¹ Absent on leave, 1966–67.

ENGLISH

PROFESSORS: W. CABELL GREET (Emeritus), LUCYLE HOOK, JOHN A. KOUWENHOVEN, DAVID A. ROBERTSON, JR. (Chairman; 408 C Barnard Hall), ELEANOR ROSENBERG, ELEANOR M. TILTON, BARRY ULANOV

ADJUNCT PROFESSOR: HOWARD M. TEICHMANN

ASSOCIATE PROFESSORS: BARBARA M. CROSS, KENNETH H. JANES (Director of Minor Latham Playhouse), RICHARD A. NORMAN, REMINGTON P. PATTERSON (Departmental Representative)

ADJUNCT ASSOCIATE PROFESSORS: JOY CHUTE, ELIZABETH HARDWICK

ASSISTANT PROFESSORS: RUTH M. KIVETTE, JOANN RYAN MORSE (Director of English A)

ASSOCIATES: ELIZABETH CAUGHRAN, MARJORIE HOUSEPIAN DOBKIN

INSTRUCTORS: ELLEN TERRY, (Part-Time): ELIZABETH DALTON, ANTHONY G. HENDERSON, RUTH M. MATHEWSON, KATHERINE MURRAY MILLETT, ANN LAKE PRESCOTT, CHRISTINE ROYER, CATHARINE R. STIMPSON

LECTURER: JANICE FARRAR THADDEUS (Examinations Officer)

ASSISTANTS: MARGARET D. HANCE, JANE HESS

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:
PROFESSOR: JAMES L. CLIFFORD

LECTURER: BERNARD BARROW (School of the Arts)

The objective of a student majoring in English is to acquire a knowledge of the development of the English language and of literary history, to become familiar with the principal writers in English, to increase her ability to interpret and evaluate a variety of literary texts, and to improve her oral and written expression. The student in consultation with her major adviser will plan her program to include the following: three half-year courses numbered 53–69; three half-year courses numbered 70–88 (except Course 82); and Course 93 (or 93y) in the junior year. In addition, a *major in literature* will take one section of Course 97 or 98 and a second term either in 97, 98 or in 95, 96. A *major in writing* will take three half-year courses numbered 3–14; she may count toward the major no more than six points in courses numbered 3–6. A *major in speech* will take Course 21 and two additional courses in speech.

Normally, the program should include at least three points of work in Anglo-Saxon or in Middle English. Course 90 (The English Language: History and Use) is strongly recommended for prospective teachers. The program may include additional courses in the department and should include work in such related fields as English and American history, foreign literatures, the history of art, and philosophy. Students who plan to do graduate work will do well to extend their reading knowledge of foreign languages.

Examinations: 1. The Junior English Test, given twice a year, in October and February, is a test of general knowledge of authors, titles, dates, and literary terms. A major must take this test by October of her junior year. Prospective majors may take the test in their sophomore year.

2. The Major Examination is in two parts. Part I (three hours) requires critical interpretation and evaluation of passages of poetry and prose. Part II (three hours) requires the composition of an essay on a literary topic. Further information about the structure of the examination will be supplied at majors' meetings.

INTRODUCTORY

All transfer students must take the English Proficiency Test before registering, and make an appointment with PROFESSOR NORMAN for the required test in speech.

A1–A2. Reading and Writing. 6 points [0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for all freshmen. Other English courses open to freshmen are Courses 19x, 19y; 21, 21y; 27, 28, any of which may be taken parallel to A1–A2. With the written permission of the instructor, a freshman may elect a literature course in the Spring Term. PROFESSOR MORSE and MEMBERS OF THE DEPARTMENT.

Sections of Course A1–A2 meet at the following hours: M W F 9, 10, 11, 12:10, 1:10, 2:10. M 3:10–4 and W 3:10–5, Tu Th 9:10–10:25, 10:35–11:50, 2:10–3:25.

Room assignments will be posted outside 401 Barnard Hall.

2. English Composition. 3 points. [0]

For students who need additional work in composition at the first-year level. Emphasis on sound organization and clear expression. Cannot be counted towards a major in English. MRS. PRESCOTT and MR. HENDERSON. Hours to be arranged.

WRITING

Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. Hance (401 Barnard Hall). Before registering for a course numbered 7–14, a student should have earned a grade of B– or better in at least one of the courses numbered 3–6. Two writing courses may not be taken concurrently unless one of the two is Course 13 or 14. Course 93 (or 93y) is to be counted as a writing course.

3, 4. Structure and Style. 6 points. [0]

English composition above the first-year level. Frequent individual conferences. Students may take either term or both.

I. For students intending to work primarily on expository prose. Miss DALTON. M 2:10–4.

II. For students who wish to experiment in various forms: the essay, the story, the poem. Miss MILLETT. M 3:10–5.

BARNARD COLLEGE

5, 6. Advanced Composition. 6 points. [0]

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either term or both. PROFESSOR KOUWENHOVEN. M W F 2:10.

7, 8. Experiments in Writing. 6 points. [0]

Advanced work in various forms. Individual conferences with the instructor. Autumn Term: PROFESSOR HARDWICK. Spring Term: MRS. DOBKIN. Th 2:10-4.

11, 12. Story Writing. 6 points [0]

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor. Some experience in the writing of fiction is prerequisite to this course. PROFESSOR CHUTE. Tu 4:30-5:25.

13, 14. Dramatic Writing. 6 points. [0]

The development of a dramatic situation in terms of short fiction, the theatre, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. PROFESSOR TEICHMANN. Tu Th 2:10-3:25.

SPEECH AND DRAMA

The work of English majors with a special interest in speech should include Course 21 and two half-year courses in public speaking, discussion and debate, voice and diction, or oral interpretation. To elect any course in speech, a student must secure the written permission of PROFESSOR NORMAN. The dramatic club, *Wigs and Cues*, and the Columbia radio station, WKCR, offer practical experience.

Students who have a special interest in the drama will find a summary of activities and courses related to that field on page 70.

19x [or 19y]. Informal Speaking. 1 point. [0]

Practice in speaking to small groups; designed for students who wish help in making themselves understood and who need experience in thinking on their feet. PROFESSOR NORMAN and MISS CAUGHRAN. Section I Th. 2:10. Section II (Spring Term only) W 12:10.

21 [or 21y]. Voice and Diction. 3 points. [0]

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Use of the language laboratory. Registration limited to 15 students. PROFESSOR NORMAN and MISS CAUGHRAN. Section I M W F 11. Section II (Spring Term only) M W F 1:10.

23, 24. Oral Interpretation of Literature. 6 points. [0]

Study of literary texts for oral presentation. Autumn Term: poetry. Spring Term: dramatic poetry and drama. MISS CAUGHRAN. M W F 10.

27, 28. Public Speaking. 4 points. [0]

Autumn Term: study of the basic principles of speech making, with emphasis on evaluating and organizing material and on effectiveness of delivery. Intended primarily for students who plan to teach. Spring Term: theory and practice of argumentation; use of evidence and opinion; training in effective participation in group discussion. PROFESSOR NORMAN. T Th 4:10.

33, 34. Play Production. 6 points. [0]

A study of the ways in which the dramatic arts fulfill the intention of the playwright. Theatre dynamics in terms of actors, directors, and all technical aspects of staging. Permission of the instructors required. PROFESSOR JANES and Miss TERRY. M 3:10–5. Lab. (2 hours) to be arranged after first meeting.

35, 36. The Actor's and Director's Interpretation of Dramatic Literature. [0]
4 points

Study and practice in classic and contemporary dramatic literature by actors and directors. Permission of the instructor required. PROFESSOR JANES. F 3:10–5.

R4201x, R4202y. A Survey of Theatre History. 6 points.

An introduction to theatre history (directing, acting, scene design, theatre architecture) from the Greeks to the twentieth century. DR. BARROW. F 6:10–8 p.m.

LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

§41, 42. Introduction to English Literature. 6 points. [9]

A general view of the scope and variety of English literature through study of selected writers and their works. This course is recommended, particularly to sophomores, for the satisfaction of the literature requirement. Autumn Term: *Beowulf* through Milton. Spring Term: Dryden to the present. PROFESSORS KIVETTE, MORSE, and PATTERSON, and MRS. PRESCOTT. Section I M W F 9. [1] Section II M W F 11. [3] Section III M W F 1:10 [4] Section IV (Spring Term only) Tu Th 2:10–3:25.

G6803x–G6804y. Anglo-Saxon Language and Literature. 6 points. [1]

Formerly Course 53, 54. Autumn Term: An introduction to the study of Anglo-Saxon. Spring Term: *The Beowulf*. PROFESSOR GREET. W F 9.

§55. Chaucer. 3 points. [7]

Chaucer's *Canterbury Tales*. PROFESSOR GREET. Tu Th 10:35–11:50.

§56. Chaucer and his Contemporaries. 3 points. [7]

Reading chosen from *Troilus and Criseyde*, *Sir Gawain and the Green Knight*, *Piers Plowman*, and *The Pearl*. There is no prerequisite for Course 56, but students who anticipate difficulty with Middle English should take Course 55 first. PROFESSOR GREET. Tu Th 10:35–11:50.

BARNARD COLLEGE

- 58. Medieval Literature.** 3 points. [3]
English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation. PROFESSOR ULANOV. Tu Th 9:10–10:25.
- §63, 64. Shakespeare and the Elizabethan Mind.** 6 points. [3]
An introduction to the meaning, scope, and greatness of Shakespeare. The sonnets and all the plays are read in the course of the year, though only the more important are studied in class. PROFESSORS ROBERTSON and HOOK. M W F 11.
- §66. Spenser and the Tudor Renaissance.** 3 points. [2]
Humanism, the Reformation, the New World; courtly poetry and popular prose from Skelton and More through Sidney and Nashe, with special attention to Edmund Spenser. PROFESSOR ROSENBERG. M W F 10.
- §67. Donne and Seventeenth-Century Literature.** 3 points. [2]
Donne and the “metaphysicals”; Jonson and the Cavalier poets; Raleigh, Bacon, Browne, Burton, and the new science; prose and poetry in the age of Marvell. PROFESSOR ROSENBERG. M W F 10.
- §68. Milton.** 3 points. [4]
Milton’s major poems, important minor poems, and selected prose works; his literary reputation from the seventeenth century to the present. PROFESSOR KIVETTE. M W F 1:10.
- §69. English Drama from its Beginnings to 1642.** 3 points. [5]
Medieval drama, Tudor interludes, Elizabethan, Jacobean, and Caroline drama (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster. PROFESSOR PATTERSON. M W F 2:10.
- §70. English Drama from the Restoration to the End of the Eighteenth Century.** 3 points. [2]
The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. PROFESSOR HOOK. M W F 10.
- §71y. The Novel.** 3 points. [12]
The English novel before 1900, including works by Fielding, Richardson, Jane Austen, Brontë, Dickens, George Eliot, Hardy, and James. PROFESSOR CROSS. M W F 12:10.
- §73, 74. English Literature of the Eighteenth Century.** 6 points. [8]
Autumn Term: Pope, Swift, and the Augustans. Spring Term: Dr. Johnson and his circle, and the pre-Romantics. PROFESSOR CLIFFORD. Th 2:30–3:20.
On Tuesday and Thursday mornings at 11 the class will also attend the lectures of Course G4301x–G4302y.

- §75. English Poets of the Romantic Period.** 3 points. [6]
The poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, studied in their literary and historical context and in the light of present day criticism. PROFESSOR TILTON. Tu Th 9:10–10:25.
- §77y. The Victorian Age in Literature.** 3 points. [5]
Prose and verse concerning problems of society and of religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. PROFESSOR ROBERTSON. M W F 2:10.
- [§78. Victorian Poetry and Criticism.** 3 points. PROFESSOR ROBERTSON.
Not given in 1966-67.]
- §79. American Literature, 1620-1855.** 3 points. [9]
The Puritan background, the Revolutionary period, and the major American Romantics: Hawthorne, Poe, Melville, Emerson and the Transcendentalists, Whitman. PROFESSOR CROSS. Tu Th 2:10–3:25.
- §80. American Literature, 1860-1960.** 3 points. [9]
The major writers in the context of their cultural history: Mark Twain, Howells, James, and the moderns. PROFESSOR TILTON. Tu Th 2:10–3:25.
- §81. Major American Writers.** 3 points. [2]
Emerson, Hawthorne, Melville, and Mark Twain. Prerequisite: Course 79 or 80, or equivalent outside reading. PROFESSOR KOUWENHOVEN. M W F 10.
- §82. Shapes of American Experience.** 3 points. [2]
Studies of form and structure in literature and other arts. Prerequisite: Six points in courses dealing with American subject-matter. PROFESSOR KOUWENHOVEN. M W F 10.
- [§83. Modern Literature and the Allied Arts.** 3 points. PROFESSOR ULANOV.
Not given in 1966-67.]
- §85. Modern British and American Poetry.** 3 points. [9]
The thought and style of Hardy, Hopkins, Yeats, Auden, Thomas, Robinson, Frost, Stevens, Eliot, and Cummings; the literary movements with which they are associated. PROFESSOR ULANOV. Tu Th 2:10–3:25.
- §86. Drama from Ibsen to the Present.** 3 points. [9]
Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. Tu Th 2:10–3:25.
- [§87. Major American Writers and Their Foreign Sources.** 3 points
PROFESSOR TILTON.
Not given in 1966-67.]

BARNARD COLLEGE

- 88. The Contemporary Novel.** 3 points. [12]
Works by Proust, Conrad, Lawrence, Mann, Faulkner, and others. A reading knowledge of French or German is required. PROFESSOR CROSS. M 6:10–7 and W 6:10–7:50.
- 90. The English Language: History and Use.** 3 points. [1]
An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. PROFESSOR NORMAN. M W F 9.
- 93(or 93y). Literary Criticism: Analysis and Evaluation.** 3 points. [0]
The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers.
Course 93 (or 93y) is required of all English majors in the junior year. (Transfer students must take it in the Autumn Term.) A few sophomores may be admitted on application to PROFESSOR MORSE. The course is not open to other students. Registration in each section is limited, and students must file a departmental registration form with MRS. HANCE before completing their programs. PROFESSORS HOOK, KIVETTE, MORSE, and ROSENBERG, MRS. THADDEUS and MISS STIMPSON. Autumn Term: Section I M 2:10–4. Sections II and III W 3:10–5. Spring Term: Section I Tu 3:35–5:25. Section II W 3:10–5. Section III Th 3:35–5:25.

SENIOR SEMINARS

- 95, 96; 97, 98. Studies in Literature.** 6 points. [0]

These seminars provide opportunities for intensive study in fields to which the student has been introduced through more general courses. All English majors who elect advanced work in literature, rather than in writing or speech, are required in their senior year to take one section of 97 or 98, and a second term either in 97, 98 or in 95, 96.

Registration in each section is limited, and the written permission of the instructor is required. Registration blanks are to be secured from MRS. HANCE and returned to her (401 Barnard Hall).

If registration allows, the seminars numbered 97, 98 are open to students specializing in speech and writing and to non-majors who have taken three literature courses including the prerequisites, and the seminars numbered 95, 96 are open to all seniors who satisfy the prerequisites. A course in the appropriate foreign literature may occasionally be substituted for one of the prerequisites.

- 95. (Autumn Term)** 3 points.
X. Theories of Literary Criticism. Prerequisite: Course 93 (or 93y). PROFESSOR HOOK. M 2:10–4.

- 96. (Spring Term)** 3 points.
XII. Style in Literature and the Other Arts. Prerequisite: A year's study in other arts. PROFESSOR ULANOV. Tu 3:35–5:25.

97. (Autumn Term) 3 points.

I. Medieval Literature and Linguistics. Prerequisite: Six points selected from Courses 53, 55, 56, 58 (formerly 44), 90 (formerly 52). PROFESSOR GREET. Tu 3:35–5:25.

IV. Dramatic Literature. Prerequisite: Nine points selected from Courses 63, 64, 69, 86; Classical Civilization C3123x; a drama course in one of the modern languages. Three points must be in Course 69, and three points may be taken concurrently. PROFESSOR HOOK. W 3:10–5.

VIII. American Literature. Prerequisite: A year's study in American literature and/or American history, American government, American art history. PROFESSOR TILTON. Tu 3:35–5:25.

IX. Contemporary Literature. Prerequisite: Three points selected from Courses 80, 85, 86, 88. PROFESSOR ULANOV. Th 3:35–5:25.

98. (Spring Term) 3 points.

II. Renaissance Literature. Prerequisite: Three points selected from Courses 66, 67, 68. PROFESSOR ROSENBERG. W 3:10–5.

III. Elizabethan and Jacobean Drama. Prerequisite: Three points selected from Courses 63, 64, 69. PROFESSOR PATTERSON. W 3:10–5.

V. Augustan Literature. Prerequisite: Course 73 or 74. PROFESSOR MORSE. W 3:10–5.

VI-VII. Romantic and Victorian Literature. Prerequisite: Three points selected from Courses 71 (or 72), 75 (or 76), 77, 78. PROFESSOR TILTON. W 3:10–5.

FRENCH

PROFESSORS: ¹HELEN PHELPS BAILEY, ²LEROY C. BREUNIG (Chairman; 16 Milbank Hall)

VISITING PROFESSOR: FRANCIS PONGE

ASSOCIATE PROFESSOR: MAURICE Z. SHRODER

ASSISTANT PROFESSORS: ELIZABETH CZONICZER, SERGE GAVRONSKY, ³RENÉE GEEN (Acting Chairman; 14 Milbank Hall), ³TATIANA GREENE

INSTRUCTORS: ERICA HENNEFELD ABEEL, DOMNA CALLIMANOPULOS, MARIE CORNGOLD, MARIE-CLAIRE Cournand (Part-Time), JACQUELINE GUÉRON, DANIELLE HAASE-DUBOSC, DANIELE KORMOS, HERMINE RIFFATERRE

LECTURER: PATRICIA TERRY

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:
PROFESSOR: JEANNE VARNEY PLEASANTS

The objective of a student majoring in French is twofold: a) to perfect fluency in the written and the spoken language and b) to develop an understanding and appreciation of the literature and culture of France.

The student in consultation with her major adviser will plan her program to include the following: either course 21-22, 23-24 or 25-26; a choice of two among the three language courses 11, 13, and 14; the phonetics course 17-18; four one-term literature courses numbered 31-42; two one-term seminars numbered 51-54. Only seniors with honor grades may elect course 59-60, Senior Thesis.

The program may include additional courses from the department's offerings along with work in related fields such as art history, French history, and other subjects which vary with the interest of the student. Majors who plan to do graduate work are urged to acquire a reading knowledge of Latin.

Examinations: 1. The Junior French Test, given in the spring of each year, is a two-hour written test based upon French literary history, literary terms, and a selected list of masterpieces. New majors should obtain this list from their advisers.

2. The Major Examination consists of a four-hour written section containing an *explication de texte*, a critical essay, and translation passages; and an individual oral exam of approximately a half-hour. Students who take course 59-60 (Senior Thesis) will be exempt from the written part, and the thesis defense will constitute the oral section.

FOREIGN LANGUAGE REQUIREMENT FOR THE DEGREE: All new students who intend to satisfy the foreign language requirement in French must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken French, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6, or Course 5 alone with a minimum grade of B+.

¹Absent on leave, 1966-67.

²Absent on leave, Fall Term.

³Absent on leave, Spring Term.

LANGUAGE COURSES

All courses are conducted in French except Course 13.

1-2. Elementary Full-year Course. 8 points [14]

Grammar, reading, composition. Work in the language laboratory is required. MISS CALLIMANOPULOS, MRS. CORNGOLD, and MRS. ABEEL.

Section I M Tu W Th F 9. Section II M Tu W Th F 10. Section III
M Tu W Th F 11.

3, 4. Intermediate Course. 6 points. [14]

Review of grammar and syntax. Translation, reading, oral practice, free composition. Work in the language laboratory is required. Prerequisite: Course 1-2 or two years of high school French and an appropriate score on the placement examination. DR. TERRY, MRS. ABEEL, MISS CALLIMANOPULOS, MRS. GUÉRON, MRS. HAASE-DUBOSC, MRS. KORMAS, and MISS Cournand.

Sections Ia and b M W F 10. Section III M W F 2:10.
Sections IIa and b M W F 12:10. Section IV Tu Th 10:35-11:50.

4x. Intermediate Course. Part II. 3 points. [14]

The equivalent of Course 4 but given in the Autumn Term. Prerequisite: Course 3 or three years of high school French and an appropriate score on the placement examination. PROFESSOR GREENE, MRS. GUÉRON, and MRS. KORMOS.

Section I M W F 10. Section II Tu Th 10:35-11:50. Section III
Tu Th 2:10-3:25.

5, 6. Third-year Course. 6 points. [14]

The study of literary texts as a basis for improving the comprehension of written and spoken French. Translations into English. Compositions and oral practice. Work in the language laboratory is required. Prerequisite: Course 3, 4 or three years of high school French and an appropriate score on the placement examination. PROFESSORS BREUNIG, CZONICZER, GAVRONSKY, GEEN, and GREENE, MRS. CORNGOLD, MRS. GUÉRON, MRS. HAASE-DUBOSC, MRS. KORMOS, MRS. RIFFATERRE, and MISS Cournand.

Sections Ia and b M W F 9. Section IV Tu Th 9:10-10:25.
Sections IIa and b M W F 11. Sections Va and b Tu Th 10:35-11:50.
Sections IIIa and b M W F 12:10. Section VI Tu Th 2:10-3:25.

5y. Third-year Course. Part I. 3 points. [14]

The equivalent of Course 5 but given in the Spring Term. Prerequisite: Course 4 or 4x. PROFESSOR CZONICZER, MRS. GUÉRON, and MRS. RIFFATERRE. Section I M W F 10. Section II Tu Th 10:35-11:50. Section III Tu Th 2:10-3:25.

6x. Third-year Course. Part II. 3 points. [14]

The equivalent of Course 6 but given in the Autumn Term. Prerequisite: Course 5, 5y, or three years of high school French and an appropriate score on the placement examination. PROFESSORS GAVRONSKY and SHRODER, and MRS.

BARNARD COLLEGE

RIFFATERRE. Sections Ia and Ib. M W F 12:10. Section II Tu Th 2:10–3:25.

8. Grammar and Composition. 2 points. [0]

Weekly compositions designed to improve the writing skill. Review of grammar and syntax. Recommended for students in Course 5, 6. MRS. HAASE-DUBOSC. M W 3:10.

9, 10. Oral French, Intermediate Course. 4 points. [0]

Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Section Ia recommended in conjunction with Course 5, 6; Section Ib in conjunction with Course 21–22, 23–24, or 25–26. Limited to 10 students in each section. MRS. HAASE-DUBOSC, MRS. RIFFATERRE, and MRS. KORMOS. Section Ia and Ib M W 2:10.

11. Advanced Composition. 2 points. [0]

Intensive written practice, primarily for French majors. PROFESSOR CZONICZER. M W 3:10.

13y. Advanced Translation into English. 2 points. [0]

Translation from French of various styles of prose and poetry. Primarily for French majors. PROFESSOR GAVRONSKY and DR. TERRY. Sections Ia and Ib M W 3:10.

14x. Advanced Translation into French. 2 points. [0]

Translation from English of various styles of prose and poetry. Primarily for French majors. PROFESSOR GEEN. M W 3:10.

17–18. French Phonetics. 6 points. [0]

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the language laboratory is part of the course. Primarily for French majors. Limited to 20 students. PROFESSOR PLEASANTS. M W F 9.

LITERATURE COURSES

Students who have not taken Course 21–22, 23–24, or 25–26 must receive written permission from the instructor in order to take the more advanced literature courses beginning with 31.

Courses marked thus § will count toward the college requirement in literature. All Barnard courses are conducted in French.

§21–22. Masterpieces of Literature from the Middle Ages to the Twentieth Century. 6 points. [14]

Lectures and discussions in French on the history of French literature. Analysis of texts, essays, and reports on outside reading. Autumn Term: *La Chanson de Roland* through Molière. Spring Term: Voltaire through Proust. Prerequisite:

Course 6 or a satisfactory score on the French placement test; or Course 5 with a grade of at least B+. Other students from Course 5 and, exceptionally, from Course 4, must have the written recommendation of their instructor. PROFESSOR SHRODER, MISS CALLIMANOPULOS, MRS. CORNGOLD, MRS. GUÉRON, MRS. RIFFATERRE, and MRS. KORMOS. Section I M W F 10. Section II M W F 11. Section III M W F 1:10 Section IV Tu Th 9:10–10:25.

§21y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I. 3 points. [8]

The equivalent of Course 21 but given in the Spring Term. Credit for Course 21y only on completion of Course 22x. MRS. HAASE-DUBOSC. Tu Th 9:10–10:25.

§22x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II. 3 points. [4]

The equivalent of Course 22 but given in the Autumn Term. Prerequisite: Course 21 or the equivalent. MISS CALLIMANOPULOS. M W F 1:10.

[23-24. The Culture and Institutions of France. 6 points.
PROFESSOR GAVRONSKY.
Not given in 1966-67.]

25–26. French Historical Prose. 6 points. [2]

A study of the masterpieces of French historical writing from the Middle Ages to the present. Autumn term: from Villehardouin to Condorcet. Spring term: from Mme. de Stael to Marc Bloch. Prerequisite: the same as for Course 21–22. PROFESSOR GAVRONSKY. M W F 10:00.

[§31. The Middle Ages. 3 points.
Not given in 1966-67.]

[§32. The Renaissance. 3 points.
Not given in 1966-67.]

§33. Seventeenth Century (I). 3 points. [6]
The French classical theater: Corneille, Racine, Molière. MRS. KORMOS.
Tu Th 9:10–10:25.

§34. Seventeenth Century (II). 3 points. [7]
Non-dramatic literature of the pre-classical and classical periods: fiction (d'Urfé, Furetière, LaFayette); non-fictional prose (Descartes, Pascal, La Rochefoucauld, LaBruyère, Sévigné, Saint-Simon); verse (baroque and precious poets; LaFontaine, Boileau). PROFESSOR SHRODER. Tu Th 10:35–11:50.

§35. Eighteenth Century (I). 3 points. [4]
The novel and *conte* from LeSage through Laclos. PROFESSOR GEEN.
M W F 1:10.

BARNARD COLLEGE

[§36. Eighteenth Century (II). 3 points.

Not given in 1966-67.]

§37. Nineteenth Century (I). 3 points. [3]

Poetry from Lamartine to Laforgue. The poem in prose will be studied as well as poetry in verse. PROFESSOR GREENE. M W F 11:00.

§38. Nineteenth Century (II). 3 points. [6]

Fiction and drama from pre-romanticism through naturalism, including works by Chateaubriand, Hugo, Vigny, Musset, Stendhal, Balzac, Flaubert, and Zola. PROFESSOR SHRODER. Tu Th 9:10-10:25.

[§39. Twentieth Century (I). 2 points.

Not given in 1966-67.]

§40. Twentieth Century (II). 3 points. [3]

The novel and the short story from Anatole France to the *Nouveau Roman*. PROFESSOR CZONICZER. M W F 11:00.

[§42. Materials and Techniques of French Poetry. 3 points. PROFESSOR GREENE.

Not given in 1966-67.]

SEMINARS

Registration in each seminar is limited, and the written permission of the instructor is required.

51. Villon. 3 points. [0]

DR. TERRY. M W 2:10.

52. Balzac. 3 points. [0]

PROFESSOR SHRODER. Tu Th 2:10.

53. French Poetics: the Reform of Malherbe, the Posterity of Lautréamont. 3 points. [0]

PROFESSOR PONGE. Tu Th 3:35-4:25.

54. Cubism and Poetry (1900-1920). 3 points. [0]

PROFESSOR BREUNIG. M W 2:10.

59-60. Senior Thesis. 6 points. [0]

Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. The essay satisfies in part the major examination requirement. PROFESSORS BREUNIG and CZONICZER. Hours for consultation to be arranged.

G4025x. French Poetry in the Twentieth Century. 3 points.

French poetry from Symbolism to the present with analyses of significant poems since 1885. Written permission of the instructor required. PROFESSOR PONGE. W 10:00-11:50.

G6705x. Theory of the Novel. 3 points.

Critical and theoretical texts from Balzac to the *Nouveau Roman*. PROFESSOR SHRODER. F 10:00–11:50.

The following courses at Columbia College are open to Barnard students who have had Course 21–22 or who receive written permission from the chairman of the Columbia College Department of French. French majors may take them in addition to, but not in lieu of, the four literature courses and the two seminars.

C3513x. Montaigne. 2 points.

PROFESSOR FRAME. Tu Th 10:00.

C3523x. Boileau and LaFontaine. 2 points.

PROFESSOR GROSS. Tu Th 1:10–2.

C3566y. Stendhal. 2 points.

PROFESSOR HAIDU. M 2:10–4.

C3581y. Sartre. 2 points.

PROFESSOR NOAKES. Tu 2:10–4.

C3661x–C3662y. The *conte* and the *nouvelle*. 6 points.

PROFESSOR KATZ. Tu Th 11:00–12:15.

C3667x–C3668y. French Drama. 6 points.

PROFESSORS GROSS and NOAKES. Tu Th 11–12:15.

GEOLOGY AND GEOGRAPHY

PROFESSORS: HENRY S. SHARP, LEONARD ZOBLER (Chairman; 216 Milbank Hall)

ASSISTANT: INA B. ALTERMAN, ELIZABETH SUROVELL

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: RHODES W. FAIRBRIDGE, RALPH J. HOLMES, JOHN IMBRIE,
HERMAN F. OTTE

ASSISTANT PROFESSORS: ROBERT A. LEWIS, DAVID SMITH

GEOLOGY

A major in geology is designed to acquaint the student with the chief divisions of the science; to give her a basic fund of knowledge concerning the structure and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be given some first-hand outdoor acquaintance with geological phenomena, and will acquire some knowledge of the methods of geological research and the professional geologist's point of view towards the earth.

After Course 1-2, students majoring in geology will take Courses W3111x-W3112y; 19; W4661x, and 60 in partial fulfillment of the major requirement. With the permission of the department six points of calculus or of biology, chemistry, or physics, may be counted towards the major. Field experience in some such course as Geology of the Rocky Mountains, offered in Wyoming each summer by Columbia University, is desirable. Remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology. Students planning to enter graduate school will take courses in related fields of science; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in geology at a minimum.

The major examination in geology will consist of the Graduate Record Examination and a six-hour written examination.

GEOGRAPHY

Geography is the study of the reciprocal relation between earth and man, including the use of natural resources under varying conditions, and the influence of environmental change on man's activities. These relations vary from place to place and are expressed in regional patterns. A student majoring in geography should acquire an appreciation of the dependence of society on the natural features of the earth, such as climate, landforms, soils, water, minerals, and other factors of the natural resource endowment. With a scientific understanding of the earth and its resources, a major is able to prepare resource surveys and regional plans for advanced and backward areas. A background in selected aspects of earth science and social science is essential for the geography major.

GEOLOGY AND GEOGRAPHY

The courses in earth science form a separate coherent program that provides an aggregate view of man's physical world. It should appeal to students interested in the purely scientific features of the planet, earth. Offerings in earth science include geology, geomorphology, meteorology, climatology, cartography, hydrology, and soils.

A major also may concentrate on the economic geography of raw materials, on urban and manufactural geography, on political and cultural geography, or focus her interests on a particular world region, developed or underdeveloped. In the latter case her program will include courses in the history, culture, and language of the selected area.

The major examination in geography will be satisfied by participation in the senior seminar and the completion of an acceptable senior thesis.

CONSERVATION OF NATURAL RESOURCES

Students interested in the human ecology of the earth as the home of man should consider the program in the conservation of natural resources. This major, a combination of earth science and biology, is sponsored jointly by the Departments of Biology, and Geology-Geography. The announcement of this program appears under Interdepartmental Offerings, page 53.

GEOGRAPHY

[1, 2. Earth Science. 6 points.

Not given in 1966-67.]

3. Agricultural Resources and Agrarian Societies. 3 points. [7]

An economic and ecologic analysis of the development, structure, and geography of world agriculture. Topics covered include population growth and economic growth, agricultural climatology and food production, land reform and social change, regional specialization and trade, developed and underdeveloped agrarian systems. Open to freshmen. May be counted towards the contemporary society requirement. PROFESSOR ZOBLER. Tu Th 10:35-11:50.

4. Mineral Resources and Urban-Industrial Growth. 3 points. [7]

The study of the energy, mineral, and technologic requirements for the transformation of an agrarian society to an urban-industrial economy. Topics covered include mineral production and economic development, energy basis of industrial society, transport systems and metropolitan regions, area development planning in advanced and backward nations. Open to freshmen. May be counted towards the contemporary society requirement. PROFESSOR ZOBLER. Tu Th 10:35-11:50.

W4011x. Soils and Soil Conservation. 3 points.

The pedologic and agronomic aspects of soil science. The genesis, morphology, classification, evaluation, and conservation of soils as a natural resource. Soil

BARNARD COLLEGE

ecology in relation to the agricultural systems of different geographical regions. Two one-day field trips are required. May be used to satisfy the contemporary society requirement. PROFESSOR ZOBLER. Tu Th 2:10–3:25.

W4012y. Hydrology and Resource Management. 3 points.

Introduction to hydrology emphasizing the principles and instrumentation for the development of conservation programs. The use of minerals, forests, fisheries, and wildlife as fund and flow resources. Conservation theory and practice in the management of natural resources on a single, multiple, or regional use basis. Two one-day field trips are required. May be used to satisfy the contemporary society requirement. PROFESSOR ZOBLER. Tu Th 2:10–3:25.

W4018x. Cartography. 3 points.

The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for cartographic analysis. A survey of photogrammetry, including some instrumentation and interpretation, and of modern map reproduction methods. Experience in cartographic drafting, design, and evaluation. Permission of the instructor required. Laboratory fee, \$5. PROFESSOR SMITH. Lec. Th 9. Lab. Th 4:10–6:00.

W3101x. Economic Geography of the United States. 3 points.

A regional study of the resources and industries of the United States, excluding the state of Alaska. Special attention will be focused on changes in the patterns of economic and human occupancy, the directions of these changes, and the forces stimulating them. PROFESSOR OTTE. M W 2:40–3:55.

[C3200y. Economic Geography of Latin America. 3 points. PROFESSOR WEBB.

Not given in 1966-67.]

[C3700y. East, South, and Southeast Asia. 3 points. PROFESSOR MARCH. Not given in 1966-67.]

W3403y. Economic Geography of the U.S.S.R. 3 points.

A study of the U.S.S.R. in terms of its environment, resources, population, and economic development. Particular reference is given to demographic problems. PROFESSOR LEWIS. M W 2:40–3:55.

[W3500x. African Problems and Potentialities. 3 points. PROFESSOR HANCE.

Not given in 1966-67.]

59, 60. Seminar in Geography and Natural Resources. 6 points. [0]

Readings, discussions, and reports on various topics from the research literature. Preparation of the senior research paper. Required of senior majors. PROFESSOR ZOBLER. Th 4:10–5:25.

GEOLOGY

1. Physical Geology. 4 points. [2]

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals and of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. Students who have had Geography 2 should not take Geology 1. PROFESSOR SHARP, MRS. ALTERMAN, and MISS SUROVELL. Lec. M W F 10; W 4:10, voluntary review session. Lab. (2 hours) M 3:10–5; Tu 9–10:50, 3:35–5:25; W 11–12:50, 2:10–4; Th 8:35–10:25, 2:10–4.

2. Historical Geology. 4 points. [2]

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip. Prerequisite: Course 1. PROFESSOR SHARP, MRS. ALTERMAN, and MISS SUROVELL. Lec. M W F 10; W 4:10, voluntary review session. Lab. (2 hours) M 3:10–5; Tu 9–10:50, 3:35–5:25; W 11–12:50, 2:10–4; Th. 8:35–10:25, 2:10–4.

19. Structural Geology. 3 points. [5]

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips. Prerequisite: Courses 1 and 2 or the equivalent. Courses 19 and 27 are ordinarily given in alternate years. PROFESSOR SHARP. M W F 2.

[27. Principles of Geomorphology. 3 points. PROFESSOR SHARP.

Courses 19 and 27 are ordinarily given in alternate years.

Not given in 1966-67.]

W3111x–W3112y. Elements of Mineralogy and Petrology. 6 points.

The fundamentals of mineralogy and petrology. Autumn Term: Crystallography, the physical properties, origin, and the economic and geologic importance of the common minerals, with emphasis on the use of physical properties and chemical testing in mineral identification. Spring Term: Primarily a basic course in petrology: the properties and relations of the rock-forming minerals, and the genesis, mode of emplacement, and alteration phenomena of the major rock types—igneous, metamorphic, and sedimentary. The laboratory work is devoted to the study of the mineral make-up and physical properties of rocks, their identification and classification. Prerequisite: Course 1. PROFESSOR HOLMES. Lec. Tu Th 11. Lab. Tu 2:10–4.

W4661x. Introduction to Paleontology. 3 points.

A systematic survey of the morphology, taxonomy, and geologic history of groups of organisms commonly found as fossils. Prerequisite: Courses 1 and 2. PROFESSOR IMBRIE. Lec. M W 11. Lab. F 2:10–4.

BARNARD COLLEGE

W4226x. Experimental Marine Sedimentology. 3 points.

Training in theory and techniques of modern marine sedimentology, especially the chemical processes associated with deposition and diagenesis. Prerequisite: Course W3111x-W3112y. PROFESSOR FAIRBRIDGE. Lec. W F 2:10 Lab. W or F 3:10-5.

[W4330y. Geomorphology of the Western United States. 3 points. PROFESSOR SHARP.

Alternates with W4332y.

Not given in 1966-67.]

W4332y. Geomorphology of the Eastern United States. 3 points.

Lectures, map study, and readings on the geomorphic division of the Eastern United States. Prerequisite: one year of geology. Alternates with a similar course on the Western United States. PROFESSOR SHARP. M W F 2:10.

W4053x. Geology of the New York Region. 1 point.

Approximately six days of field study of selected areas within two hundred miles of New York City. Some overnight trips during week-ends. An illustrated field note book will be maintained by each student. Prerequisite: one year of geology. Expenses: \$60 to \$70. PROFESSOR FAIRBRIDGE and assistants. Dates to be arranged.

60. Seminar in Geology. 3 points. [0]

A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. PROFESSOR SHARP. W 3:10-5.

GERMAN

ASSOCIATE PROFESSOR: LOUISE G. STABENAU (Chairman; 127 Milbank Hall)

ASSISTANT PROFESSORS: BRIGITTE BRADLEY, GERTRUD SAKRAWA

INSTRUCTORS: HELMUT GUTMANN, HEIDRUN ELSE WILDE

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of ease in expressing herself in German, in speaking as well as in writing, and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is required to take a minimum of 28 points above the intermediate level, including four points of Course 9, 10, Advanced Practice, and Course 61. Course 55, 56 does not count toward the major.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take Course 11, 12.

The major examination consists of two three-hour written sections and an oral section of at least one hour. The senior essay will replace one of the written sections.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in German must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken German, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6 or Course 5 alone with a minimum grade of B+.

LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1 with the exception of Courses 11, 12 and 55, 56. All students in Courses 1-2; 3, 4; and 5, 6 will be expected to use the facilities of the language laboratory.

1-2. Elementary Full-Year Course. 8 points. [15]

Elements of grammar, easy reading, written and oral practice. PROFESSOR
BRADLEY, MR. GUTMANN, MRS. WILDE, and ----- Section I M W F 9.
Section II M W F 11. Section III M W F 12:10. Section IV M W F
2:10 Required oral sections may be chosen as follows: Section I Tu Th 9.
Sections II and III Tu Th 11. Section IV Tu Th 2:10.

3, 4. Intermediate Course. 6 points. [15]

Reading and discussion of works by representative modern authors. Compositions in German. Grammar review. Prerequisite: Course 1-2 or a satisfactory grade on the placement examinations. PROFESSOR SAKRAWA and MRS. WILDE.
Section I M W F 11. Section II M W F 12:10.

BARNARD COLLEGE

7, 8. Intermediate Practice. 2 or 4 points. [0]

Intensive oral practice (one point per term); intensive written practice may be taken for one additional point, with third hour to be arranged. MR. GUTMANN, and MRS. WILDE. M W 10.

9, 10. Advanced Practice. 2 points. [0]

Required of all majors in their junior and senior years. Recommended to all students in advanced literature courses. Aimed at perfecting oral and written expression. Individual conferences with instructor and work in the language laboratory. PROFESSOR SAKRAWA and MRS. WILDE. Hours to be arranged.

11, 12. Readings in Expository Prose. German Contributions to Modern Thought. 6 points. [15]

Discussions and translations. Writings of general interest in various fields of intellectual pursuit. Among the authors are Freud, Einstein, Jaspers. Classes conducted in English. Prerequisite: Course 4 or permission of the department. PROFESSOR BRADLEY. M W F 12:10.

LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

All courses are conducted in German except Courses 55 and 56.

§5, 6. Introduction to the Study of German Literature. 6 points. [15]

Intensive reading and critical interpretation of significant works from the eighteenth to the twentieth century. Class discussion and short papers in German. Practice in translation. Prerequisite: Course 4 or a satisfactory grade on the placement examination. PROFESSORS STABENAU and SAKRAWA, and MR. GUTMANN. Section I M W F 9. Section II M W F 11.

[§15, 16. The Age of Goethe. 6 points. PROFESSOR -----

Not given in 1966-67.]

[§25, 26. German Drama in the Nineteenth and Twentieth Centuries.

4 or 6 Points. PROFESSOR STABENAU.

Not given in 1966-67.]

§27, 28. The Novel and the "Novelle" from Goethe to Thomas Mann. [9] 6 points.

The development of the genres. Critical analysis of representative works. Class discussion and three papers. Prerequisite: Course 5, 6 or the permission of the department. PROFESSOR SAKRAWA. Tu Th 2:10-3:25.

[§32. German Lyric Poetry. 2 or 3 points. PROFESSOR SAKRAWA.

Not given in 1966-67.]

- §36. Goethe's Faust.** 2 or 3 points. [6]
 Intensive study of parts I and II in relation to the poet's life and time with a comparative survey of the history of the Faust motif in earlier centuries. Papers for the third point. Prerequisite: Course 5, 6 or the permission of the department. PROFESSOR STABENAU. Tu Th 9.
- §45, 46. German Literature from the Earliest Times to the Eighteenth Century.** 6 points. [5]
 Study of representative works in the context of social and cultural conditions. Autumn Term: The Courtly Age and the period of Humanism. Spring Term: Reformation, Baroque and Enlightenment. Prerequisite: Course 5, 6 or the permission of the department. PROFESSOR BRADLEY. M W F 2:10.
- 61. Heinrich Heine.** 3 points. [0]
 Seminar required of seniors majoring in German. Open to other qualified students by permission of the department. An intensive study of selections from Heine's work. Class discussions and individual reports. Term paper. Introduction to methods of research. PROFESSOR SAKRAWA. Tu Th 10:35–11:50.
- 62. Senior Essay.** 3 points. [0]
 Senior essay, based on the work of Course 61. Regular consultations with the instructor at hours to be arranged. PROFESSOR SAKRAWA.
- [55. Goethe.** 3 points.
 Not given in 1966-67.]
- 56. Modern German Literature: The Writer's Commitment to his Time.** [9]
 3 points.
 Novels and plays by Thomas Mann, Brecht, Frisch, Dürrenmatt, Hochhuth, Böll, Grass and others. Lectures and discussions. Term paper. No knowledge of German is required. PROFESSOR BRADLEY. Tu Th 2:10–3:25.

COLUMBIA COLLEGE COURSES

Some upper level courses can be found at Columbia during the years when they are not offered at Barnard.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

GOVERNMENT

PROFESSOR: ¹PHOEBE MORRISON

ASSOCIATE PROFESSORS: DEMETRIOS CARALEY (Chairman; 409 Lehman Hall),
PETER H. JUVILER

ASSISTANT PROFESSORS: ²LINDA MILLER, -----.

INSTRUCTORS: RICHARD HALLIN (Part-time), ETHEL SHEFFER (Part-time),
AUDREY SLESINGER.

VISITING LECTURER: ANNETTE B. FOX

The purpose of the study of government is to develop understanding of the basic political institutions and processes in human society. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as civil servant, public or party official, lawyer, or political commentator, and to undertake graduate training in political science in preparation for a career in college teaching.

The foundation for a major in government is Course 1, 2 and 45, 46. As a senior, in order to explore more adequately the techniques of scholarly investigation and to have the opportunity for independent specialized work, the student must take one section of Course 61, 62 and write a senior essay. Students are strongly advised to arrange for a four-course program in one or both terms of the senior year.

The department's requirements are flexibly drawn so as to permit a major in consultation with her adviser to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system, foreign political systems, international relations, or political thought.

A student may apply through appropriate channels for permission to take any course offered in the department for additional credit after she has secured the permission of the instructor in that course, except Course 1, 2. Such additional credit will be based either upon a special program of reading or the preparation of a special report.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

1, 2. Modern Constitutional Democracies. 6 points. [2]

Political traditions, structures, processes, and problems of contemporary democracies. Autumn Term: Democratic theories and the American system of democratic politics. Spring Term: Operation and development of democracy in selected foreign countries. Course 1 or permission of the instructor is prerequisite to Course 2. Autumn Term: PROFESSOR CARALEY and MEMBERS OF THE DEPARTMENT. Spring Term: PROFESSOR JUVILER and MEMBERS OF THE DEPARTMENT. Lec. M W 10. Conference hours: M 1:10, 2:10; W 12:10; Th 9, 11, 2:10; F 10, 11.

¹ Absent on leave, Spring Term.

² Absent on leave, 1966-67.

- 7, 8. **Modern Political Movements.** 6 points. [7]
Recent changes in modern politics, such as the weakening of liberal democracy, the emergence of communism as a major force, the rise of fascism, and the growth of Christian democracy. Prerequisite: Course 1, 2 or History 1, 2. -----.
Tu Th 10:35–11:50.
- [9. **American Political Parties and Practices.** 3 points PROFESSOR CARALEY.
Not given in 1966-67.]
10. **American State and Municipal Government.** 3 points. [3]
Patterns of state and city government and politics. Analysis of the influence of party leaders, public officials, social and economic notables, interest groups, the press, and the general public. PROFESSOR CARALEY. M W F 11.
- 11, 12. **International Relations.** 6 points. [4]
Autumn Term: An exploration of basic aspects of world politics with emphasis on contemporary theory and practice. Spring Term: An examination of the roles of diplomacy, law and international organization as modes of accommodation and conflict-resolution in the present international system. Open to all except freshmen. DR. FOX. M W F 1:10.
15. **The Soviet Union.** 3 points. [6]
Analysis is made of Soviet politics before and after Stalin; ideology; the structure of the Party and the government; instruments for mobilizing mass support; the impact of politics on the economy, arts, and the round of daily life; the limits of totalitarian control. Prerequisite: Course 1, 2 or History 1–2. PROFESSOR JUVILER.
Tu Th 9:10–10:25.
16. **International Communism.** 3 points. [9]
Communism's evolution as a world movement and political force. Emphasis is on recent efforts to reconcile internationalism with personal and national ambitions. Case studies include Titoism, impact of de-Stalinization, and the Sino-Soviet dispute. Prerequisite: Course 1, 2 or History 1–2 or the equivalent. PROFESSOR JUVILER. Tu Th 2:10–3:25.
17. **Introduction to International Law.** 3 points. [5]
Such problems as recognition of states, legal status of dependent territories, control of war and new weapons, changing concepts of neutrality, and other selected issues. Prerequisite: Course 11. PROFESSOR MORRISON. M 2:10–4. Third hour to be arranged.
- [19. **The United States in Contemporary World Politics.** 3 points.
Not given in 1966-67.]

BARNARD COLLEGE

- 21. The Soviet Union in World Affairs.** 3 points. [9]
Soviet foreign policy is studied for patterns of continuity and change; motivations; possible causes of East-West tensions; the meaning, problem, and prospects of "peaceful coexistence." Prerequisite: Course 1, 2 or History 1-2. PROFESSOR JUVILER. Tu Th 2:10-3:25.
- 23, 24. Comparative Political Systems.** 6 points [3]
A comparative approach to the study of political systems in foreign countries. Primary emphasis on the politics of the developing areas with comparisons to political patterns in mature societies. Autumn Term: Concentration on African political systems. Spring Term: Concentration on Asian political systems, with particular attention to India and China. Prerequisite: Course 1, 2 or the permission of the instructor. MRS. SLESINGER. M W F 11.
- 25. The Constitution of the United States.** 3 points. [6]
Problems in the administration of justice and basic constitutional concepts are studied by the use of materials on constitutional interpretation. Designed for students of American government as well as for the pre-law candidate. Prerequisite: Course 1, 2 or History 9-10, or the equivalent. PROFESSOR MORRISON. Tu Th 9:10-10:25.
- [26. The Constitution of the United States.** 3 points.
Not given in 1966-67.]
- [27. Executive Policy-Making.** 3 points. PROFESSOR CARALEY.
Not given in 1966-67.]
- 28. Legislative Politics.** 3 points. [5]
Analysis of the interrelations of structure, politics, and policy in the United States Congress. Intensive analysis of a recent session of Congress through first-hand examination of hearings, reports, debates and voting patterns. PROFESSOR CARALEY. M 2:10-4. Third hour to be arranged.
- 29. The American Democratic System.** 3 points. [5]
Analysis of institutional, social, and psychological bases of American political behavior. Prerequisite: Course 1, 2, 9, or permission of the instructor. PROFESSOR CARALEY. M 2:10-4. Third hour to be arranged.
- 31, 32. The History of Political Thought.** 6 points. [7]
Major political writings from ancient to modern times. Political doctrines such as democracy, liberalism, socialism, fascism, and communism. Emphasis on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances. Prerequisite: Course 1, 2 or History 1-2. MRS. SHEFFER. Tu Th 10:35-11:50.

COURSES FOR MAJORS ONLY

- 45, 46. Junior Readings.** 6 points. [0]
Intensive analysis of central concepts and major arenas of government and politics through the examination of theoretical writings and case materials.

GOVERNMENT

MRS. SHEFFER and MR. HALLIN. Bi-weekly meetings of two hours. Sections I and III Tu 3:30–5:30. Sections II and IV W 2–4.

51–62. Senior Seminar. 6 points. [0]

Discussions and conferences on the writing of the senior essay.

Section I	PROFESSOR CARALEY.	Tu 4:10–6.
Section II	PROFESSOR MORRISON (Autumn Term) and ————— (Spring Term).	W 4:10–6.
Section III	PROFESSOR JUVILER.	Th 4:10–6.
Section IV	MRS. SLESINGER.	W 4:10–6.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Announcement of the Graduate Faculties. Attention is drawn to the following:

G4241x. The Political Setting of Public Administration. 3 points. PROFESSOR SAYRE. W 4:10–6. PRO-

G4461x, G4462y. Latin American Political Institutions and Behavior. 6 points PROFESSOR SCHNEIDER. W 4:10–6.

G4472y. Political Institutions of Japan. 3 points. PROFESSOR MORLEY. W 2:10–4.

GREEK AND LATIN

PROFESSOR: HELEN H. BACON (Chairman; 317 Milbank Hall)

ASSISTANT PROFESSOR: LYDIA H. LENAGHAN

INSTRUCTOR: STEPHEN W. SCHNEIDERMAN

LECTURERS: PHYLLIS B. KATZ, -----

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: MOSES HADAS

ASSOCIATE PROFESSORS: COLEMAN H. BENEDICT, WILLIAM M. CALDER III,
HENRY S. COMMAGER, JR., HOWARD N. PORTER

ASSISTANT PROFESSORS: JAMES A. COULTER, DANIEL GERSHENSON

INSTRUCTORS: HOWARD JACOBSON, WILLIAM R. NETHERCUT, JOHN VAIO

PRECEPTOR: RICHARD L. WERTIS

The general objectives toward which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Twenty-eight points in Greek above the elementary course, of which four must be in prose composition, six in the senior seminar.

A major in Latin: Twenty-eight points in Latin above the elementary course, of which four must be in prose composition, six in the senior seminar.

A major in Greek and Latin combined can be arranged for qualified students on consultation with the major adviser.

Other fields: Courses in ancient art, archaeology, history, philosophy, and other languages are strongly recommended.

The major examination at the end of the senior year consists of one three-hour examination which will test the student's understanding of style and language, and her ability to read aloud both prose and verse.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Foreign language requirement for the degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin 11, 12, or by completing any one of the above courses with a minimum grade of B+, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

CLASSICS IN TRANSLATION

Classical Civilization 32. Classical Myth. 3 points. [13]

A study, through translations, of classical myths in such authors as Hesiod and Ovid. May be counted toward the second part of the humanities requirement.
MR. SCHNEIDERMAN. Tu Th 3:10-4:25.

GREEK AND LATIN

Classical Literature C3123x. Greek Drama and its Influences. 3 points.

The major Greek tragedies and comedies, and their influence on Roman and later European drama. Some attention is paid to the problems of the origin of Greek drama, the production of plays, and the dramatic criticism of Aristotle. PROFESSOR GERSHENSON. M W F 11.

Classical Literature C3126y. Epic in Greece and Rome. 3 points.

A study, through translations, primarily of the *Iliad*, the *Odyssey*, and the *Aeneid*, and secondarily of Apollonius, Lucan and others. Some attention will be given to the epics of other peoples. Given every other year, in alternation with Course C3128y. MR. VAIO. M W F 11.

[Classical Literature 3128y. Historiography in Greece and Rome. 3 points.

MR. VAIO.

Not given in 1966-67.]

GREEK LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

1-2. Elementary Full-Year Course. 8 points. [5]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. PROFESSOR BACON. M Tu W F 2:10.

§11. Plato: One dialogue; Euripides: One play. 3 points. [2]

Prerequisite: Course 1-2, or the equivalent. MRS. KATZ. M W F 10.

§12. Selections from Homer. 3 points. [2]

Prerequisite: Course 11 or permission of the instructor. PROFESSOR LENAGHAN. M W F 10.

§V3305x. Tragedy. 3 points.

A play of Aeschylus and a play of Sophocles; studies in the origin and development of Greek tragedy. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3307x. PROFESSOR BACON. M W F 1:10.

§V3306y. Historians. 3 points.

Selections from Thucydides; studies in Greek historiography. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3308y. PROFESSOR COULTER. M W F 1:10.

[§V3307x. Comedy. 3 points. PROFESSOR BENEDICT.

Not given in 1966-67.]

[§V3308y. Philosophy. 3 points. PROFESSOR BACON.

Not given in 1966-67.]

BARNARD COLLEGE

§V3309x. Selections from Greek Literature, I. 3 points.

Rhetoric: its theory in Aristotle's *Rhetoric*, with illustrative material from the Attic orators and other texts. Prerequisite: Course 11, Course 12, or the equivalent. PROFESSOR GERSHENSON. Tu Th 5:40–6:55.

§V3310y. Selections from Greek Literature, II. 3 points.

Hellenistic literature: selections from the post-classical writers. Prerequisite: Course 11, Course 12, or the equivalent. PROFESSOR HADAS. Tu Th 3:40–4:55.

V1109x–V1110y. Prose Composition: First course. 4 points.

A supplement to early reading courses which gives the student a firmer grasp of grammatical structure. MR. SCHNEIDERMAN. W 5:10–7.

V3319x–V3320y. Prose Composition: Second course. 4 points.

A review of grammatical principles through the writing of sentences in Greek. MR. VAIO. Th 1:10–3.

V3371x–V3372y. Major Seminar. 6 points.

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Guided readings in Greek literature. Review and coordination of the work of the major. PROFESSOR GERSHENSON and MEMBERS OF THE BARNARD AND COLUMBIA DEPARTMENTS. W 2:10–4.

LATIN LANGUAGE AND LITERATURE

Courses marked thus § will count toward the college requirement in literature.

1–2. Elementary Full-Year Course. 8 points. [3]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. PROFESSOR LENAGHAN. M 11–1, W F 11.

3. Cicero: Selections. 3 points. [3]

Prerequisite: Course 1–2 or the equivalent. MR. SCHNEIDERMAN. M W F 11.

4. Vergil: Selections from the Aeneid. 3 points. [3]

Prerequisite: Course 3 or the equivalent. MRS. KATZ. M W F 11.

§V3011x. Myth and Pastoral. 3 points.

Selections from Livy; Vergil's *Eclogues*. Prerequisite: Course 4 or the equivalent. MR. NETHERCUT, MR. SCHNEIDERMAN, ————. Section I M W F 10, open to Barnard students with permission of the department chairman. Section II M W F 1:10. Section III M W F 3:10.

§V3012y. Lyric Poetry. 3 points.

Selections from Catullus and Horace. Prerequisite: Course V3011x or the equivalent. PROFESSOR COMMAGER, MR. SCHNEIDERMAN, ————. Section I

GREEK AND LATIN

M W F 10, open to Barnard students with permission of the department chairman.
Section II M W F 1:10. Section III M W F 3:10.

§V3305x. **Historians.** 3 points

Selections from Tacitus; studies in Latin historiography. Prerequisite: Course V3011x, Course V3012y, or the equivalent. Given every other year, in alternation with Course V3307x. PROFESSOR BENEDICT. M W F 10.

§V3306y. **Satire.** 3 points.

Satires of Horace and Juvenal; studies in the history of satire. Prerequisite: Course V3011x, Course V3012y, or the equivalent. Given every other year, in alternation with Course V3308y. PROFESSOR COMMAGER. M W F 11.

[§V3307x. **Elegiac Poetry.** 3 points. PROFESSOR PORTER.

Not given in 1966-67.]

[§V3308y. **Philosophy.** 3 points. PROFESSOR BENEDICT.

Not given in 1966-67.]

§V3309x. **Selections from Latin Literature, I.** 3 points.

Cicero: selections from speeches and letters; a study of oratory and politics in the late Republic. Prerequisite: Course V3011x, Course V3012y, or the equivalent. PROFESSOR LENAGHAN. M W 3:40—4:55.

§V3310y. **Selections from Latin Literature, II.** 3 points.

Drama: one comedy each of Plautus and Terence and a tragedy of Seneca; studies in the origin and development of Roman drama. Prerequisite: Course V3011x, Course V3012y, or the equivalent. PROFESSOR CALDER. M W 3:40—4:55.

V1109x—V1110y. **Prose Composition: First course.** 4 points.

A supplement to early reading courses which gives the student a firmer grasp of grammatical structure. MR. WERTIS. Th 5:10—7.

V3319x—V3320y. **Prose Composition: Second course.** 4 points.

A review of grammatical principles through the writing of sentences in Latin. MR. JACOBSON. Th 1:10—3.

V3371x—V3372y. **Major Seminar.** 6 points.

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Guided readings in Latin literature. Review and coordination of the work of the major. PROFESSOR LENAGHAN AND MEMBERS OF THE BARNARD AND COLUMBIA DEPARTMENTS. W 2:10—4.

GRADUATE COURSES

Graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors. Their description may be found in the Announcement of the Graduate Faculties.

HISTORY

PROFESSORS: BASIL RAUCH (Acting Chairman; 420 Lehman), ¹RENÉ ALBRECHT-CARRIÉ, CHILTON WILLIAMSON

ASSOCIATE PROFESSORS: SIDNEY A. BURRELL, VIRGINIA D. HARRINGTON

ASSISTANT PROFESSORS: ANNETTE K. BAXTER, PATRICIA ALBJERG GRAHAM, GEORGE WOODBRIDGE

INSTRUCTOR: SUZANNE F. WEMPLE

LECTURER: PATRICIA H. LABALME

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: MORTON SMITH

INSTRUCTOR: MARSHALL SHATZ

As the record of the past, history touches on all aspects of human activity. The study of history is calculated to give an understanding of the functioning of man in society through an appreciation of his past achievements and a sense of continuity combined with diversity. The basic issues that confront human society have changed but little in historic times, but their setting is forever different.

A major in history: In order to acquire a broad understanding of historical development and some acquaintance with the technique of historical study, a student majoring in history is required to take the following:

(a) Three fundamental courses: European history (1-2), six points of American history, and six points of ancient or medieval history. Students are urged to take courses in their special field of interest independently of the completion of these fundamental courses;

(b) Two courses in the category of advanced courses to be chosen with a view to concentration in the broad fields of either American or European history.

The purpose of the colloquia is to provide intensive study of a limited period or aspect of history, with emphasis on the use of source material, in contrast with the broader approach of the other advanced courses. Colloquia will be primarily conducted on the basis of class discussion and will require the writing of a term paper. Admission to them is by permission of the instructor;

(c) Junior Readings, (71-72);

(d) One seminar for the purpose of gaining insight into the technique of more advanced work and as an introduction to specialized study and research. In connection with this seminar a student majoring in history is required to write a senior essay. Students are strongly advised to elect a four-course program for their senior year.

NOTE: These broad requirements retain sufficient flexibility to be adjustable to the needs of students with a special interest in a particular field or area, e.g., classical civilization, cultural history, the Near East, and the program in Oriental Studies.

¹ Absent on leave, 1966-67.

BASIC COURSES

- 1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War.** 6 points. [16]

Autumn Term: Foundations of modern Europe; from the fifteenth century to the eighteenth; the British, American, and French Revolutions; Napoleon; the Congress of Vienna. Spring Term: Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; the world wars and the twentieth century transition. PROFESSORS BURRELL and WOODBRIDGE.

Section I M W F 9. Section II Tu Th 2:10-3:25.

- C1105x-C1106y. Ancient History: A Survey of the Ancient Mediterranean World.** 6 points.

Autumn Term: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the accession of Alexander the Great. Spring Term: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known world," the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. PROFESSOR SMITH. M W F 9.

- 7-8. Medieval History.** 6 points. [9]

An introduction to the problems, institutions, and culture of the medieval world from the third to the fifteenth century. MRS. WEMPLE. Tu Th 2:10-3:25.

- 9-10. History of the United States from the Colonial Period to the Present Day.** 6 points. [3]

This course, while presented within the political and economic framework, will place particular emphasis on social, cultural, and intellectual development. Designed especially for freshmen and for students who intend to take only one year of American history. PROFESSOR HARRINGTON. M W F 11.

ADVANCED COURSES

- 11, 12. England from the Norman Conquest to the Twentieth Century.** 6 points. [8]

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginning of the welfare state. PROFESSOR BURRELL. Tu Th 10:35-11:50.

- [13, 14. France from the Sixteenth to the Twentieth Century.** 6 points. PROFESSOR WOODBRIDGE.

Not given in 1966-67.]

- 17, 18. Nineteenth Century Europe, 1815-1914.** 6 points. [2]

The nations of Europe: their internal political, economic, and cultural developments and conflicts and also their relations with each other and the rest of the

BARNARD COLLEGE

world from the restoration of peace in 1815 to the outbreak of war in 1914. Autumn Term: to 1870; Spring Term: after 1870. Term papers. Prerequisite: History 1-2 or the equivalent. PROFESSOR WOODBRIDGE. M W F 10.

[19, 20. **Twentieth Century Europe, 1914 to the Present.** 6 points. PROFESSOR CARRIÉ.

Not given in 1966-67.]

[21, 22. **The Modern Mediterranean World.** 6 points. PROFESSOR CARRIÉ.

Not given in 1966-67.]

23, 24. History of Russia. 6 points. [2]

A history of the Russian people, state and culture from their origins to the present. Autumn Term: Russia to 1861. Spring Term: Imperial, Revolutionary and Communist Russia. Prerequisite: Course 1-2 or its equivalent. MR. SHATZ. M W F 10.

31, 32. Studies in American Colonial History. 6 points. [2]

Economic, religious, social and intellectual aspects of colonial culture. The Revolutionary Movement: ripeness of the colonies for rebellion; organization of resistance; the clash of ideas and arms; internal significance of the Revolution and its subsequent influence. Prerequisite: Course 9-10 or its equivalent. PROFESSOR HARRINGTON. M W F 10.

G6327x-G6328y. History of the British Empire-Commonwealth. 6 points.

An historical survey from Tudor times to the second World War, with special attention to those phases of the subject less likely to be familiar to American students. Prerequisite: Course 1-2 or its equivalent. PROFESSOR WILLIAMSON. M W F 11.

33, 34. Studies in Middle American History. 6 points. [5]

Aspects of the history of the United States from the establishment of the Constitution to the collapse of Reconstruction. Prerequisite: Course 9-10 or its equivalent. PROFESSOR WILLIAMSON. M W F 2.

[35-36. **Studies in Modern American History.** 6 points. PROFESSOR RAUCH.

Not given in 1966-67.]

37-38. History of United States Foreign Relations. 6 points. [9]

American diplomacy from the Secret Committee of Correspondence to recent times, with attention to domestic and foreign influences on the policies and actions of American leaders. Prerequisite: Course 9-10 or its equivalent. PROFESSOR RAUCH. Tu Th 2:10-3:25.

39, 40. History of Religion in America. 6 points. [5]

The sixteenth century religious revolution and its skewed representation in colonial America; the influence of the American environment and of broad cultural movements such as the Enlightenment, Romanticism, science, scholarship and secular-

ism on religious developments in the United States; the modern theological renaissance and contemporary America. Prerequisite: Course 9–10 or its equivalent. PROFESSOR HARRINGTON. M W F 2.

41, 42. The History of Women in America. 6 points. [2]

A survey of the political, social, economic and cultural activities of women in the United States. An analysis of changing attitudes toward the public and private roles of women from colonial times to the present. Open to all except freshmen. Especially recommended for American Studies majors. Prerequisite: Course 9–10 or its equivalent. Fall term, PROFESSORS CROSS and BAXTER. Spring term, PROFESSORS CROSS, NOVAK, and BAXTER. M 10–11:40.

43. History of Education in the United States. 3 points. PROFESSOR GRAHAM.

See Education offering on page 75.

[51, 52. The Development of Historical Thinking. 6 points. PROFESSOR BURRELL.

Not given in 1966-67.]

61. Stability by Revolution: England 1688-1714. (Colloquium) 3 points. [0]

Political, economic, social, and cultural developments leading to the establishment of political stability after the Revolution of 1688. PROFESSOR WOODBRIDGE. Autumn 1966. W 2:10–4.

62. Stability by Reform: England 1830-1840. (Colloquium). 3 points. [0]

Political, economic, social, and cultural developments leading to the Reform Act of 1832 and the other reform acts of the decade. PROFESSOR WOODBRIDGE. Spring 1967. W 2:10–4.

[63. European Travellers in the United States Before 1860. (Colloquium).

3 points

Studies in the accounts of European travellers to the United States selected to illustrate their different points of view and their reactions to American developments. PROFESSOR HARRINGTON. Autumn 1967.

Not given in 1966-67.]

[64. The Romantic Historians of America. (Colloquium). 3 points.

A study and comparison of some nineteenth century historians, such as Irving, Prescott, Parkman and Motley, their relations to each other and the influences which affected them. PROFESSOR HARRINGTON. Spring 1968.

Not given in 1966-67.]

[65, 66. The First World War and the Peace Settlements. (Colloquium).

6 points.

An examination of the course of the war and the shaping of the subsequent peace settlements, especially from the standpoint of the relations of the Powers, and in the light of economic and social developments of the period. PROFESSOR CARRIÉ. 1968-1969.

Not given in 1966-67.]

BARNARD COLLEGE

[67, 68. The Franklin D. Roosevelt Administration. (Colloquium). 6 points.

Problems of leadership and policy, domestic and foreign, during the presidency of Franklin D. Roosevelt. Readings in primary and secondary materials. PROFESSOR RAUCH. 1969-1970.

Not given in 1966-67.]

The attention of students whose primary interest lies in the field of ancient or medieval history is called to the offerings in these fields given in Columbia College.

COURSES FOR MAJORS ONLY

Admission to the seminars is by permission of the department. History majors should file application with the chairman in the spring of their junior year, indicating the order of their choice of seminars.

History majors are also eligible to fulfill seminar requirements by enrolling in the senior seminar in British Civilization on written permission of the chairman of the Committee on British Civilization.

71-72. Junior Readings. 6 points. [0]

Students will read important works in history, brief written reports will be prepared for discussion. The aim of the course is to prepare the student to read and discuss historical works critically. Required of all majors in the junior year; open only to majors. PROFESSORS WILLIAMSON, BAXTER, and MRS. WEMPLE. Tu 3:30-5.

81-82. Senior Seminars in European Civilization. 6 points. [0]

Research in the literature of European issues, including nationalism, socialism, the balance of power, etc., and the presentation of the results in seminar discussion and the form of the senior essay. PROFESSOR BURRELL and DR. LABALME. Section I W 4:10-6. Section II Th 4:10-6.

83-84. Seminar in American Studies. 6 points. [0]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussions. PROFESSOR RAUCH. W 4:10-6.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the courses will be found in the Announcement of the Graduate Faculties.

ITALIAN

ASSOCIATE PROFESSOR: MARISTELLA DE PANIZZA LORCH

(Chairman for Barnard College and Acting Departmental Representative for Columbia College; 231 Milbank Hall)

INSTRUCTOR (Part-time): FERRUCCIO GAMBINO

LECTURER: ANTONIO FRANCESCHETTI

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: PAUL O. KRISTELLER, JOSEPH A. MAZZEO, JOHN C. NELSON, MARIO A. PEI, OLGA RAGUSA, ¹LUCIANO REBAY (Departmental Representative for Columbia College)

VISITING PROFESSOR: GIUSEPPE SANSONE

ASSOCIATE PROFESSOR: A. KENT HIEATT

INSTRUCTOR: ALBERTA FABRIS GRUBE

LECTURER: IRVING PORTNER

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write, and speak it, (b) a fundamental acquaintance with Italian literature, (c) ability to understand and interpret literary texts in Italian.

Courses: A minimum of 28 points, exclusive of language courses, to be planned as early as possible in consultation with the department; Course V3991x–V3992y.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, or Course V3333x with a minimum grade of B+.

Casa Italiana: The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture and literature. A program of lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs.

LANGUAGE COURSES

V1101x–V1102y. Elementary Full-year Course. 8 points.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with Spanish 1-2. No credit is given for Course V1101x until Course V1102y has been completed. Work in the

¹ Absent on leave, 1966-67.

BARNARD COLLEGE

language laboratory for one hour weekly is a required part of the course. Drs. GRUBE, FRANCESCHETTI, and GAMBINO.

Section I M Tu W Th F 9. Sec II M Tu W Th F 10.

Section IIIa and IIIb M W F 12 and Tu Th 11.

V1201x—V1202y. Intermediate Course. 6 points.

A review of the essentials of grammar, intensive and extensive reading, translation, composition, and practice in conversation. DR. GRUBE and DR. FRANCESCHETTI.

Section 1 M W F 11. Section 2 M W F 12.

V1301x—V1302y. Intensive Elementary and Intermediate Course. 6 points.

For linguistically gifted students who have completed their language requirement in another foreign language and who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts. DR. FRANCESCHETTI.
M W F 9.

LITERATURE COURSES

Courses marked with § will count toward the college requirement in literature. All courses are conducted in Italian.

§V3333x—V3334y. Introduction to Italian Literature. 6 or 8 points.

Prerequisite: V1202 or the equivalent. Reading and interpretation of Italian authors; training in composition. DR. GRUBE. M W F 2:10.

[§V3535x—V3536y. Dante, Petrarca, Boccaccio. 6 or 8 points.

Not given in 1966-67.]

[§V3537x—V3538y. Italian Humanism and the Italian Renaissance.

6 or 8 points.

Not given in 1966-67.]

§V3639x—V3640y. Italian Literature from 1550 to 1800. 6 or 8 points.

Reading and analysis of literary texts of the period. PROFESSOR LORCH.
Tu Th 9—10:15.

[§V3642y. The Italian Theatre. 3 or 4 points. PROFESSOR LORCH.

Not given in 1966-67.]

§V3733x. Modern and Contemporary Italian Literature.

3 or 4 points.

Reading and analysis of literary texts from 1800 to the present. Italian V3734y, the second half of this course, is not given in 1966-67. PROFESSOR SANSONE.
M W 11—12:15.

V3991x—V3992y. Seminar in Italian Literature. 6 points.

Required of majors. Open to other qualified students by permission of the chairman of the department. Intensive analysis of literary masterworks leading to the preparation of a critical essay. V3991x, PROFESSOR SANSONE. V3992y, DR. GRUBE and PROFESSOR LORCH. M 3:10—5.

COURSES GIVEN IN ENGLISH

Students majoring in Italian may take these courses only with the permission of the chairman of the department.

[V1121x–V1122y. The Italian Renaissance and its Classical Background.

PROFESSOR LORCH. 4 or 6 points.

Not given in 1966-67.]

V1132y. Dante, Petrarca, Boccaccio. 4 or 6 points.

The *Divine Comedy*, the *Canzoniere*, and the *Decameron*: lectures and discussions. PROFESSOR NELSON. Tu 11–12:30.

Italian V1131x, the first half of this course, is not given in 1966-1967.

English–French–Italian C3050x, C3051y, C3052y. Medieval and Renaissance Literatures and their interrelations.

C3050x. PROFESSORS LORCH and HEATT. Tu Th 11–12:15. 3 points.

C3051y. PROFESSORS LORCH and HEATT. Tu Th 11–12:15. 3 points.

[C3052y. 3 points. Not given in 1966-1967.]

Prerequisite: The permission of the instructor. In the Italian and English part of the course, given this year, reading knowledge sufficient to meet the Language Requirement in Italian is required. The French part of the course makes a corresponding requirement. Any of the terms may be counted towards a major or concentration in English, French, or Italian, upon permission of the appropriate department.

C3050 and C3051: the love lyric (13th–17th centuries); the Neoplatonic literature of love and Elizabethan translation (Castiglione, Hoby's translation of *Il Cortegiano*); narrative (Dante, *Pearl* poet; Boccaccio, Chaucer; Ariosto, Tasso, Spenser); political literature (Machiavelli, Sir Thomas Elyot); the medieval and Renaissance images of Petrarch in England.

GENERAL STUDIES

The following courses in the School of General Studies are open to Barnard students:

F1221x–F1222y. Intermediate Conversation. 4 points.

F3335x–F3336y. Advanced Composition and Translation. 6 points.

History F3739–F3740. Colloquium on Italian History. 6 points.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the chairman of the department. A description of these courses will be found in the Announcement of the Graduate Faculties.

MATHEMATICS

PROFESSOR: WALTER C. STRODT

ASSOCIATE PROFESSORS: PATRICK X. GALLAGHER (Chairman; 333 Milbank Hall)

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSORS: HYMAN BASS, LIPMAN BERS, BERNARD O. KOOPMAN, SERGE LANG, PAUL A. SMITH

ASSISTANT PROFESSORS: MARTIN MOSKOWITZ, RONALD A. SCHAUFEELE

RITT INSTRUCTORS: J. MARSHALL ASH, PETER BLUM, ROBERT L. HALL, W. J. HARVEY, JAMES J. KELLEHER, ETHAN F. KENNEL, JOAN LANDMAN, JAMES N. MCNAMARA, NORMAN A. SHENK II

Students taking only a year of mathematics ordinarily take Courses 7, 8 or 15, 16, the latter being preferred if the mathematics is to be used for science courses.

Calculus is offered in three sequences, designated A, B, and C. Detailed descriptions of these alternatives, and of admission procedures for B and C, are in the Columbia College Catalogue. Students with above average ability, or with a sustained interest in mathematics, particularly prospective mathematics majors, are expected to take the B or C sequence. These courses are, moreover, usually preferable to skipping a term or a year of calculus when a student's background makes this choice available.

An advanced placement score of 4 or 5 earns 3 points of advanced placement credit, and 6 points upon successful completion, in the freshman year, of a year of mathematics at the level of C1107 or higher.

A major in mathematics: 28 points, exclusive of Courses 7, 8; 56; W3005x–W3006y; W3202x (or W3202y) are required. These must include the following foundational courses: Calculus I–IV (in the B or C sequence, if possible); 35, 36; and at least two from among 31; 40; W3040, W3041. At least two of these courses should be completed by junior year. Courses in allied fields, such as statistics, physics, applied mathematics, history of science, etc., as well as graduate courses, when appropriate, are usually taken. This should be done in consultation with the department. Majors planning graduate study are advised to obtain a reading knowledge of two of the three languages: French, German, Russian.

The major examination, in the senior year, consists of (1) the Graduate Record Examination; and (2) an oral examination by the department covering the student's advanced courses.

17, 18. Mathematical Analysis. 6 points.

[2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. DR. BLUM. M W F 10.

¹ Courses may not be counted towards a major in mathematics.

15, 16. Calculus IA and IIA. 6 points. [3]

The differential and integral calculus of functions of one variable. Analytical geometry is introduced as needed. Limits, continuity, and differentiation; the construction of algebraic, exponential, and trigonometric functions, with their inverse functions and derivatives; the integral and the fundamental theorem of calculus; integration techniques; infinite sequences and series; applications to geometry and physics. Prerequisite: Trigonometry. PROFESSOR SMITH.
M W F 11. Fourth hour to be arranged.

C1103x—C1104y. Calculus IB and IIB. 6 points.

The same material as Course 15, 16, with greater emphasis on the understanding of the mathematical concepts and logical structure. DR. KENNEL. M W F 11.
Recitation sections: Tu or Th 8 or 12:10.

C1107x—C1108y. Calculus IC and IIC. 6 points.

The same material as Course 15, 16. The terminology and style are thoroughly modern. Intended for students who have facility with discussions on an abstract level, or who appear likely to develop such facility early. PROFESSOR BASS.
M W F 11.

C1201x—C1202y. Calculus IIIA and IVA. 6 points.

The differential and integral calculus of functions of several variables, and elements of vector analysis. Topics include partial derivatives, multiple integrals, linear equations, determinants, and matrices. Applications to geometry and physics. Prerequisites: Calculus IIA or the equivalent for IIIA, Calculus IIIA for IVA. THE STAFF. Tu Th 11. Recitation sections: M or W, 8 or 12.

C1203x—C1204y. Calculus IIIB and IVB. 6 points.

The same material as Calculus IIIA, IVA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Prerequisites: Calculus IIB or the equivalent for IIIB, Calculus IIIB for IVB. PROFESSORS LANG and MOSKOWITZ.

Section I Tu Th 11—12:15. Recitation Sections: M or W, 8 or 12. Section II
M W F 11. Recitation sections: Tu or Th, 8 or 12. (Freshman section).

C1207x—C1208y. Calculus IIIC and IVC. 6 points.

The material of Calculus IIIA, IVA plus additional topics, as time permits. The terminology and style are thoroughly modern. Prerequisites: Calculus IIC for IIIC, Calculus IIIC for IVC. PROFESSOR BERS. Tu Th 11—12:15.

31. Elementary Number Theory. 3 points. [6]

Sets, cardinal numbers, combinatorial problems. Congruences, sums of squares, quadratic reciprocity. Distribution of primes. Transcendence of e . Prerequisite: Calculus II or the equivalent. PROFESSOR GALLAGHER. Tu Th 9:10—10:25.

35, 36. Analysis. 6 points. [13]

An introduction to the theory of functions of one or several real variables. Topological spaces and continuity, differentiability, and functional relations for map-

BARNARD COLLEGE

pings of Euclidean spaces, elements of the theory of Riemann and Lebesgue integration, infinite sequences and series. Prerequisite: Calculus IV or the equivalent. PROFESSOR STRODT. Tu Th 3:35–4:50.

40. Introduction to Group Theory and Linear Algebra. 3 points. [6]

Groups, subgroups, factor groups, with examples. Vector spaces, linear transformations, characteristic polynomial. Inner products. Representations of finite groups. Prerequisite: Calculus IV or consent of the instructor. PROFESSOR GALLAGHER. Tu Th 9:10–10:25.

[¹ 56. Advanced Calculus. 3 points.

Not given in 1966-67.]

[61. Introduction to Modern Mathematics. 3 points.

Not given in 1966-67.]

¹ W3005x—¹W3006y. Advanced Calculus for Science Majors. 6 points.

Completion of the basic calculus sequence with the essential groundwork for applications to physics and engineering. Autumn Term: Power series in several variables, differentiation of maps, implicit function theorem, change of variables in multiple integration, Green's and Stoke's Theorem. Vector notation is used. Spring Term: Uniform convergence, differentiation of series and integrals, Riemann-Stieltjes integrals, Fourier series, Legendre polynomials, Bessel functions, orthogonality. Terms may be taken in either order. Prerequisite: Calculus IV.

DR. HALL. Tu Th 1:10–2:25.

W3007x. Complex Variables. 3 points.

An elementary course in functions of a complex variable. Complex numbers, analytic functions, Cauchy-Riemann equations, Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping. DR. KELLEHER. M W 1:10–2:25.

W3010x. Fundamental Concepts of Mathematics. 3 points.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Calculus IV or the equivalent. DR. BLUM. Tu Th 2:40–3:55.

W3027x(or W3027y). Differential Equations. 3 points.

The solution of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Calculus IV or equivalent. Autumn Term: DR. ASH. Tu Th 5:40–6:55. Spring Term: DR. KELLEHER. M W F 10.

W3028y. Partial Differential Equations. 3 points.

The solution of partial differential equations, with applications to problems in geometry and mechanics. Prerequisite: Course W3027x or equivalent. DR. ASH. Tu Th 5:40–6:55.

¹ Courses may not be counted towards a major in mathematics.

W3040x–W3041y. Introduction to Algebra. 6 points.

Required for majors. Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Calculus IV or consent of instructor. DR. KENNEL. M W 2:40–3:55.

W3161x–W3162y. Introduction to Analysis. 6 points.

Required for majors. Topics include: Metric spaces and their completion, topological spaces and the theory of continuous functions and convergence, inverse mapping theorems and existence theorems for differential equations, differential forms and their integrals, Fourier transforms. Prerequisite: Calculus IV or the equivalent. PROFESSOR LANG. Tu Th 1:10–2:25.

¹ W3202x (or W3202y). Linear Algebra. 3 points.

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Calculus II or the equivalent. Autumn Term: —————. Tu Th 5:40–6:55. Spring Term: DR. McNAMARA. Tu Th 10, W 12.

W3375x. Geometric Topology. 3 points.

Elementary combinatorial properties of polyhedra. The fundamental group; elementary homology theory and related invariants. Other topics. Prerequisite: Calculus II or consent of instructor. DR. McNAMARA. Tu Th 2:40–3:55.

W3386y. Differential Geometry. 3 points.

Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Calculus IV or equivalent. DR. HARVEY. Tu Th 2:40–3:55.

W3501x–W3502y. Applied Calculus of Variations. 6 points.

The basic classical theory of the calculus of variations and modern methods of finding extremals. Examples drawn from geometry and classical mechanics. Applications to problems of oscillations, variational principles in physics, statistical mechanics, information theory, and operations research, including economic problems. Prerequisite: Calculus IV or the equivalent. PROFESSOR KOOPMAN. M W 4:10–5:25.

W3940x–W3941y. Seminar in Algebra. 6 points.

Discussion and readings of selected topics in algebra. Prerequisite: Course W3041. DR. LANDMAN. M W 2:40–3:55.

W3961x–W3962y. Seminar in Analysis. 6 points.

Discussion and readings of selected topics in analysis. Prerequisite: Course W3162. DR. SHENK. M W 1:10–2:25.

Mathematical Statistics G4105x (or G4105y). Probability. 4½ points.

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems;

¹ Courses may not be counted towards a major in mathematics.

BARNARD COLLEGE

moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chisquare, t, and F distributions. Prerequisite: Calculus IV. Autumn Term: —————, M W 6:10–7:25. Spring Term: PROFESSOR SCHAUFLE. Tu Th 11–12:15.

Mathematical Statistics G4106y. Elementary Theory and Applications of Stochastic Processes. 3 points.

Special topics in probability theory which are important in applications: Markov chains, renewal theory, random walks, recurrent events, queuing theory, elementary stochastic processes. Prerequisite: Course G4105. —————. Tu 7:10–9.

GRADUATE COURSES

Students are urged to consult the Announcement of the Graduate Faculties for further information.

MUSIC

ASSOCIATE PROFESSOR: HUBERT DORIS (Chairman for Barnard; 709 Dodge Hall)

INSTRUCTOR: PATRICIA CARPENTER

ASSISTANT: KENNETH COOPER

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: JACK BEESON, OTTO LUENING, WILLIAM J. MITCHELL, VLADIMIR USSACHEVSKY

ASSOCIATE PROFESSORS: JOEL NEWMAN, HOWARD SHANET

ASSISTANT PROFESSORS: CHOU WEN-CHUNG, GORDON CRAIN, ERNEST SANDERS

INSTRUCTORS: CHRISTOPHER HATCH, HARVEY SOLLBERGER, PIERO WEISS, CHARLES WUORINEN

LECTURER: NICHOLAS ENGLAND

TEACHING STAFF IN APPLIED MUSIC:

SHIRLEE EMMONS. Voice, Autumn Term

EVELYN HERTZMANN. Voice, Spring Term

ALTA HILL. Piano

ROBERT GOLDSAND. Piano

RUBEN VARGA. Violin

ELIAS DANN. University Band

HOWARD SHANET. University Orchestra

M. SEARLE WRIGHT. Organ; Chapel Choir

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 1–2 and V1331x–V1332y in her first two years, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and Course 1–2) in literature, history, and in theory. Ordinarily Courses V3123x–V3124y, V1331x–V1332y, V3532x–V3533y, V3333y, V3334x, V3335x, and V3373x–V3374y are required. (Courses V3336y and V3239x–V3240y are required of students intending to specialize in composition.) Course V3125x is highly recommended as an elective. Applied music courses (a maximum of 12 points) may be counted towards the degree but are not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Announcement of the Graduate Faculties for those courses open to seniors and others with advanced training.

BARNARD COLLEGE

At the end of the junior year students majoring in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano and that they have participated for two years in the orchestra, choir, concert band, or other musical ensembles.

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

Practice rooms: The department provides practice rooms at a nominal charge for use of students of applied music. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Course 1-2.

LITERATURE AND HISTORY

1-2. An Introduction to Music. 6 points.

A study of the elements of musical structure designed to form intelligent listening habits. The spring term is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course satisfies the non-literature requirement in the humanities.

PROFESSOR DORIS and MISS CARPENTER.

Section I M W F 10. [2]. Section II M W F 11. [3]. One hour per week of supervised listening.

V1003y. Literature of the Solo Song. 3 points.

A survey of vocal literature from the eighteenth century to the present. PROFESSOR DORIS. M W 2:10 and F 2:10-4. One hour is a listening hour.

[V1004y. Literature of the Pianoforte. 3 points. PROFESSOR DORIS.

Not given in 1966-67.]

V1005x. The Opera. 3 points.

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR LUENING. M W 1:10-3.

V1006y. The Symphony. 3 points.

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course V1008y will satisfy the non-literature requirement in the humanities. PROFESSOR SANDERS. M W 1:10-3. One hour is a listening hour.

V1007y. Music of the World's Peoples. 3 points.

An introduction to the so-called primitive folk and traditional music of the world's peoples. One hour of class time each week will consist of musical illustrations. Prerequisite: Course 1-2 or the equivalent. MR. ENGLAND. Tu Th 2:10-4.

V1008x. Contemporary Music. 3 points.

A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course V1006y will satisfy the non-literature requirement in the humanities. PROFESSOR BEESON. Tu Th 2:10-4.

V1109x, V1110y. History of Dance. 4 to 6 points.

A survey of the development, history, aesthetics and philosophy of dance, with particular reference to drama, opera, ballet and modern dance. Lectures and demonstrations; interviews with specialists in the field and practice in selected dance movements. MRS. ROOSEVELT and MR. SORELL. Tu 7:10-9:50 p.m.

V1012y. Haydn and Mozart. 3 points.

The significant works of Haydn and Mozart. Prerequisite: Music V1331 or the instructor's permission. PROFESSOR LUENING. M W 3:10-5. One hour is a listening hour.

[V1014x. Chamber Music. 3 points. PROFESSOR LUENING.

Not given in 1966-67.]

V1015x. American Music. 3 points.

A survey of music in America from colonial times through the 1950's. Attention is given to the interrelationships among folk, "entertainment" and art music. Prerequisite: Course 1-2 or equivalent. PROFESSOR NEWMAN. M W 3:10-5. One hour is a listening hour.

V3123x-V3124y. History of Music. 6 points.

A survey of the history of music from the beginning of the Christian era to the nineteenth century. One hour of class time each week will consist of musical illustration. Prerequisite: Course V1331x-V1332y or the equivalent. PROFESSOR NEWMAN and MR. HATCH. Tu Th 9-10:50.

V3125x. Nineteenth Century Music. 3 points.

A history of music in the Romantic Era. This course is designed as a continuation of Course V3123x-V3124y, but may be taken separately and at any time after completion of Course V1332y. PROFESSOR DORIS. M W F 2:10, listening hour F 3:10.

V3179x-V3180y. Seminar. Historical and Analytical Studies in the Literature of Music. 6 points.

Required seminar for senior majors to supplement and coordinate previous studies.

Section I PROFESSOR DORIS and MISS CARPENTER. F 3:10-5.

Section II PROFESSOR BEESON. Th 4:10-6.

THEORY

V1331x–V1332y. Harmony I and II. 6 points.

A study of diatonic triadic operations within the tonal system. Prerequisites: the equivalent of a course in elementary musicianship, the ability to play the piano, and the instructor's written permission. Placement examination: W, Sept. 28, 1966, 11 a.m., Rm. 710 Dodge. Students who do not pass this preliminary test may enroll in Harmony but are required to attend a remedial class in ear training for at least two hours per week, as follows: M 4:10; Tu 12; W 1:10; Th. 12. MISS CARPENTER, MESSRS. HATCH and WUORINEN. M W F 1:10.

V3532x. Harmony at the Keyboard. 2 points.

A laboratory course featuring the subject matter of Course V1332y as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, harmonization of melodies, and thorough-bass realization. Prerequisite: Course V1331x. Preceding or parallel: Course V1332y. MR. COOPER. Hours to be arranged. First meeting, Thurs. Sept. 29, 1966 at 12 in Rm. 704 Dodge.

V3333x. Chromaticism. 3 points.

An analytical study of the elements of chromaticism. The exercises in various chromatic styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course V1331x–V1332y or the equivalent. Parallel, advised but not required: Course V3335x, V3336y. PROFESSOR MITCHELL. M W F 10.

V3533y. Harmony at the Keyboard. 2 points.

A laboratory course featuring the subject matter of Course V3333y as applied to the keyboard. Prerequisite: Course V1331x–V1332y. Preceding or parallel: Course V3333x. MR. COOPER. Hours to be arranged.

V3334y. Analysis. 3 points.

Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history. Prerequisite: Course V3333x. Recommended, but not required: Course V3335x, V3336y. PROFESSOR MITCHELL. M W F 10.

V3335x. Species Counterpoint. 3 points.

A study of the five species in two and three parts, strict style. Prerequisite: Course V1331x–V1332y or the equivalent. PROFESSOR CHOU and MISS CARPENTER. M W F 12.

V3336y. Contrapuntal Techniques. 3 points.

Contrapuntal practices; the composing and analysis of polyphonic works in various styles. PROFESSOR CHOU. M W F 12.

V3239x–V3240y. Composition. 4 points.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course V3333x or written

permission of the instructor. This course may be repeated for credit. PROFESSOR LUENING and MESSRS. SOLLBERGER and WUORINEN. Section I Tu 3:10–5. Section II W 4:10–6. Section III Th 1:10–3.

V3373x–V3374y. Orchestration, Conducting, and Score Reading. 6 points.

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. Prerequisite: Course V1331x–V1332y or the equivalent and written permission of the instructor. PROFESSOR SHANET. M W F 11.

APPLIED MUSIC

NOTE: Each course in applied music must be taken parallel to, or subsequent to, a theoretical or historical course in music in order to count towards the degree. A maximum of 12 points may be so counted. One point of credit each term is available to members of the University Orchestra. Special financial benefits are available to majors upon application to the chairman of the department. Hours to be arranged with the instructor. All fees are payable after the first lesson, and no further lessons may be taken until payment is made.

81, 82. Vocal Instruction. 2 points. (See above note.)

Private lessons in voice production and in interpretation. Coaching and repertoire. Special fee, \$185 each term; no refunds. MISS EMMONS, Autumn Term. MRS. HERTZMANN, Spring Term.

F1509x–F1510y. Organ Instruction. 2 points. (See above note.)

Individual instruction in the technique of the instrument and a weekly class lesson on the interpretation of the works of representative organ composers. Consult the Columbia departmental office about registration and fees. MR. WRIGHT.

85, 86. Violin Instruction. 2 points. (See above note.)

Private lessons in the technique of the instrument and in interpretation, for both beginning and advanced students. Special fee, \$185 each term; no refunds. MR. VARGA.

V1591x–V1592y. University Orchestra. 2 points.

Auditions: During registration week by appointment. Rm. 703 Dodge.
Rehearsals: M 5:30–7:30 on the stage of McMillin Theatre, and M W F 5:30–7:30 in the three weeks preceding each concert.

93, 94. Piano Instruction. 2 points. (See above note.)

Private lessons in technique, sightreading and repertoire. Special fee, \$185 each term; no refunds. MISS HILL.

95, 96. Piano Instruction for Advanced Students. 2 points. (See above note.)

Private lessons in the technique of the instrument and in interpretation. Coaching and repertoire. Special fee, \$225 each term; no refunds. MR. GOLDSAND.

BARNARD COLLEGE

PERFORMANCE ACTIVITIES

A detailed description of the following activities is given in the *Barnard Student Handbook*.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, at least a week before registration.

Chapel Choir: MR. WRIGHT.

Auditions: Friday, September 23, from 2 to 5; Monday–Wednesday, September 26–28, from 10 to 12 and 2 to 5, in the Chapel Crypt.

Rehearsals: M W F 5–6:15.

University Bands: MR. DANN.

Auditions: Concert Band, during registration week and by appointment.

Rehearsals: Tu Th 4–6.

Collegium Musicum.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

Music for an Hour.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult Professor Doris.

ORIENTAL STUDIES

ASSOCIATE PROFESSORS: JOHN MESKILL (Department Representative; 101 Barnard Hall), MORTON KLASS (Anthropology)

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION JOINTLY TO BARNARD and COLUMBIA STUDENTS:

PROFESSOR: ¹WM. THEODORE DE BARY

ASSOCIATE PROFESSORS: AINSLIE T. EMBREE, CHIH-TSING HSIA, IVAN MORRIS, HERSCHEL F. WEBB

ASSISTANT PROFESSORS: ANDREW MARCH, H. PAUL VARLEY

INSTRUCTORS: MYRON COHEN, J. MASON GENTZLER, PHILIP B. YAMPOLSKY

PRECEPTORS: JEANETTE WAKIN, GERALD LARSON, FREDERICK UNDERWOOD

Oriental Studies aims to provide, by means of the first three courses listed below, an introduction to major aspects of four living Asian civilizations. These courses are designed for any student, whatever her major, who wishes to include knowledge of Asia in her education.

Majors in the program will be prepared for further study in graduate school or some other related professional training. They will concentrate on one of the following regions or countries: the Near and Middle East, India, China, or Japan.

Program: As corollary requirements and prerequisites:

Approximately three courses in a regular academic department, such as history or literature.

Either Oriental Civilizations V3355x–V3356y or Oriental Studies V3001x–V3002y, usually to be completed by the end of the sophomore year.

As major requirements:

Two years of an Oriental language (in addition to other college language requirements).

18 points in Oriental courses, divided between the social sciences and the humanities.

A senior seminar of three points, or its equivalent.

A major examination or, in some circumstances, a shorter examination and a paper.

All individual courses will be chosen in consultation with the major adviser.

Majors in the program come under the administration of Area Studies. For admissions procedures and other details, see page 51.

Oriental Civilizations V3355x–V3356y. 8 points.

Sections I, II, and III: The more important factors in the life of peoples of India, China, and Japan, together with an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Develop-

¹ Absent on leave, 1966-67.

BARNARD COLLEGE

ments in the nineteenth and twentieth centuries as these societies have confronted the modern West while still grappling with age-old problems. Fourth hour: Consultation and audio-visual illustrations. Section IV: The same for East Asian civilizations only, without India. Prerequisite: History 1-2 or permission of instructor. PROFESSORS EMBREE, KLASS, MESKILL, VARLEY, and WEBB, and MESSRS. COHEN and GENTZLER. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IV M W F 2:10. Fourth hour W 12:10.

Oriental Humanities V3399x-V3400y. 8 points.

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several oriental traditions. The Autumn Term will deal with works from the Near East and India; the Spring Term with readings from China and Japan. Open to juniors and seniors who have completed six points of literature and three points of philosophy or religion, or written permission of instructor. PROFESSORS EMBREE, HSIA, MESKILL, and MORRIS, and DR. YAMPOLSKY, MRS. WAKIN, MESSRS. GENTZLER, LARSON, and UNDERWOOD.

Section I	Tu 3:10-5.	(Columbia students)
Section II	W 2:10-4.	(Columbia students)
Section III	Th 7:10-9 p.m.	(Columbia students)
Section IV	Th 3:10-5.	(Barnard and Columbia students)
Section V	M 3:10-5.	(Barnard students)
Section VI	Tu 7:10-9 p.m.	(General Studies students)

Oriental Studies V3001x-V3002y. Introduction to Islamic Civilization. 6 points.

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. MRS. WAKIN. M W 4:10-5:25.

History G6525x-G6526y. History of Modern India. 6 points.

The development of modern India from the decline of the Mughal Empire to the present time. Special attention will be given to the impact of the West, the rise of nationalism, the social, political and economic problems of independent India, and foreign relations. Permission of instructor required. PROFESSOR EMBREE. M W 10.

Chinese History G6815x-G6816y. Introduction to the Civilization of China. 6 points.

An examination of Chinese history from ancient times to the beginning of the seventeenth century, with special attention given to characteristic political, economic and social developments. Permission of Professor Meskill required. PROFESSOR BIELENSTEIN. M W 11.

Oriental Studies V3501x-V3502y. Seminar in Asian Literature. 6 points.

Autumn Term: Selected themes of Chinese, Japanese, Indian, and Near Eastern poetry. Spring Term: Selected topics in the contemporary literature of China,

ORIENTAL STUDIES

Japan, India, and the Near East. Open to juniors and seniors with the permission of Professor Meskill or Mr. Gentzler. MEMBERS OF THE DEPARTMENT.
W 3:10–5.

Oriental Studies V3507x–V3508y. Seminar on Comparative Studies in Asian Civilizations. 6 points.

Autumn Term: Concepts of Asia in European and Asian social and historical thought. Spring Term: Studies in the modernization of the traditional societies of China, Japan, and India. Permission of the program consultant required. MEMBERS OF THE DEPARTMENT. M 7:10–9 p.m.

The following courses in Columbia University are open to Barnard students who have the consent of their advisers and PROFESSORS ULANOV and MESKILL, officers in charge of Area Studies. Descriptions may be found in the Announcements of Columbia College, the Graduate Faculties and the School of General Studies.

[Anthropolgy G4187y. Peoples of South Asia. 3 points. PROFESSOR KLASS.
Not given in 1966-67.]

Arabic F1101x–F1102y. Elementary Arabic. 6 points.
PROFESSOR MADINA. M 6:40–7:55 p.m. Th 6:10–7:25 p.m.

Chinese C1101x–C1102y. Elementary Chinese. 10 points.
MISS CHANG and MR. YEN. Section I M Tu W Th F 9. Section II M Tu W Th F 10.

Chinese C1201x–C1202y. Intermediate Chinese. 10 points.
MISS PAN. M Tu W Th F 9.

Chinese G4005x–G4006y. Advanced Chinese. 8 points.
MR. LO. M W 4:10–6.

Chinese G4031x–G4032y. Chinese Literature. 6 points.
PROFESSOR HSIA. Tu Th 10.

Chinese G4033x. Modern Chinese Literature. 3 points.
PROFESSOR HSIA. Tu Th 11.

Chinese–History G6825x–G6826y. History of Modern China. 6 points.
PROFESSOR WILBUR. W 2:10–4.

Chinese G6027x. Introduction to Chinese Thought. 3 points.
PROFESSOR CHAN. F 10–11:50.

History–Japanese G6839x–G6840y. History of Modern Japan. 6 points.
PROFESSORS WEBB and TIEDEMANN. Th 2:10–4.

BARNARD COLLEGE

History—Japanese G6833x—G6834y. History of Japanese Civilization. 6 points.

PROFESSORS MORRIS and WEBB. Tu Th 11.

Japanese C1101x—C1102y. Elementary Japanese. 10 points.

PROFESSOR RYAN. M Tu W Th F 11.

Japanese C1201x—C1202y. Intermediate Japanese. 10 points.

MR. OKAMOTO. M Tu W Th F 9.

Japanese G4005x—G4006y. Contemporary Japanese. 8 points.

PROFESSOR SHIRATO. M W F 11—12:15.

Japanese G4031x—G4032y. Japanese Literature. 6 points.

PROFESSOR KEENE. Tu Th 10.

Sanskrit G4101x—G4102y. Elementary Sanskrit. 6 points.

PROFESSOR ————— .

PHILOSOPHY

PROFESSORS: JOSEPH GERARD BRENNAN, MARY MOTHERSILL (Chairman;
35 Milbank Hall)

ASSOCIATE PROFESSOR: SUE HOWARD LARSON

INSTRUCTOR: ILMAR WALDNER

The major in philosophy is designed to give the student knowledge of the systems of speculative thought framed by the principal thinkers of western civilization; to acquaint her with important problems concerning the scope and reliability of human knowledge, concepts of being, and the meaning of moral values; and to provide her with training in philosophical techniques appropriate to these problems. To achieve these objectives, majors in philosophy are required to take both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalent: 1; 5; 22; 61, 62, and in the senior year, the seminar, 65–66. A six-hour written major examination at the end of the senior year is required. Qualified senior majors are permitted to enroll in philosophy courses offered by the Graduate Faculties of Columbia University. Permission for such enrollment should be obtained from the chairman of the Barnard department.

1x (or 1y). Introduction to Philosophy. 3 points.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. PROFESSORS BRENNAN, LARSON, MOTHERSILL, and MR. WALDNER.

Section I	M W F 9.	[1]	Section III	M W F 11.	[3]
Section II	M W F 10.	[2]	Section IV	Tu Th 10:35–11:50.	[7]

5. Logic. 3 points. [4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by an introduction to symbolic logic. PROFESSOR BRENNAN.
M W F 1:10.

7. Theory of Knowledge. 3 points. [6]

A general account of the concepts of belief, knowledge, evidence, judgment, and error. Readings from contemporary and classical sources. Prerequisite: Course 1 or the permission of the instructor. PROFESSOR MOTHERSILL. Tu Th 9:10–10:25.

22. Ethics. 3 points. [6]

An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights, and duties; alternative moral ideals; the use of moral language. Prerequisite: Course 1 or the permission of the instructor. PROFESSOR MOTHERSILL. Tu Th 9:10–10:25.

25. Social Philosophy. 3 points. [5]

Examination of traditional and contemporary issues in social philosophy, includ-

BARNARD COLLEGE

ing the public interest, freedom, the state, justice. Prerequisite: Course 1 or the permission of the instructor. MR. WALDNER. M W F 2:10.

41. Aesthetics 3 points. [7]

Systematic consideration of problems in aesthetics and philosophy of art including: the nature of aesthetic concepts, visual form and representation, expression, aesthetic functions of language, the possibility of resolving conflicts of taste. Prerequisite: Course 1 or permission of the instructor. PROFESSOR LARSON. Tu Th 10:35–11:50.

43, 44. Philosophical Implications of the Modern Novel. 6 points. [3]

Autumn Term: Reading of Schopenhauer's *The World as Will and Idea* and three works of Nietzsche, followed by a study of Thomas Mann's *The Magic Mountain* accompanied by independent reading of other Mann works. Hermann Hesse's novels are discussed with particular attention to *Steppenwolf* and *Magister Ludi*. Spring Term: The Flaubert-Joyce theory of art and the artist is compared to the views of Tolstoy and Henry James. The relation of Bergson's philosophy to the work of Gide and Proust is examined, and certain novels of the French "Mandarins" are read in addition. Relations between philosophical and literary existentialism will be discussed. A small number of twentieth century English and American novels will be read with reference to implicit ideologies and world views. Either term may be taken separately. Not open to freshmen. PROFESSOR BRENNAN. M W F 11.

61, 62. History of Philosophy. 6 points. [2]

Autumn Term: Ancient and medieval philosophy. Spring Term: Modern philosophy. Prerequisites: Philosophy 1 or Philosophy 5 or permission of the instructor. Either term may be taken separately. MR. WALDNER. M W F 10.

63, 64. Supplementary Readings in Philosophy. 2 points. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. Hour to be arranged for individual or group conferences.

65–66. Senior Seminar. 6 points. [10]

An intensive study of selected philosophical classics. Discussion, oral reports, and term papers. Required of all majors in the senior year. Open to other qualified seniors by permission of the instructor. PROFESSORS MOTHERSILL and LARSON. W 3:10–5 and conference hours to be arranged.

76. Twentieth Century Philosophy. 3 points. [5]

A study of selected topics in contemporary English and American philosophy. MR. WALDNER. M W F 2:10.

82. Metaphysics. 3 points. [9]

Systematic consideration of problems related to some fundamental metaphysical distinctions, including substance-attribute, particular-universal, mind-body, necessity, contingency, and causality. Readings in contemporary and classical philosophy. Prerequisite: Course 1 or the equivalent. PROFESSOR LARSON. Tu Th 2:10–3:30.

84. The Philosophy of Education. 3 points. [4]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. Not open to freshmen. PROFESSOR BRENNAN. M W F 1:10.

85. Philosophy of Language. 3 points. [5]

A systematic consideration of such problems as: the possibility of giving a general characterization of language, the relation of syntactic and semantic systems to natural languages, intentional and causal theories of meaning, analysis of speech acts. Prerequisite: Course 1 or Course 5 or permission of the instructor. PROFESSOR LARSON. M W F 2:10.

PHYSICAL EDUCATION

ASSISTANT PROFESSOR: MARION R. PHILIPS

ASSOCIATES: SANDRA GENTER, EDITH G. MASON,
JEANETTE S. ROOSEVELT (Chairman; 209 Barnard Hall)

INSTRUCTOR: EDITH ABBOTT

The program is organized and administered by the Department of Physical Education in cooperation with the Medical Department and the Athletic Association. It is designed to provide the students with knowledge, skills, habits, and attitudes concerning health, physical activity, and recreation.

The Faculty requires physical education during the freshman, sophomore, and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department. Since the objectives and scope of the work in modern dance and fencing are related to practical theatre, students who major in English and specialize in drama are urged to take courses in this area.

Medical examinations and posture analysis: Two complete medical examinations by the College Physician are required of all students during the four years. One complete posture examination is required by the Department of Physical Education upon entrance. Subsequent posture examinations will be given whenever indicated. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

Freshman requirement: Three hours per week on different days. During the first term two of these hours are prescribed body mechanics and rhythmic fundamentals. The third hour is elective.

Section I M W 12:10.

Section V Tu Th 9.

Section II M W 1:10.

Section VI Tu Th 11.

Section III M W 2:10.

Section VII Tu Th 2.

Section IV M W 3:10.

Sophomore and Junior requirement: Two hours per week on different days.

Registration: Held simultaneously with registration for academic courses. See College Calendar for specific dates, page 5. Students who fail to register for physical education by the close of the registration period are subject to the fine for late registration.

Exception: Registration for Fall Term indoor season and Spring Term outdoor season is held separately prior to the beginning of these two seasons of activities.

Program of activities: Two sessions each term: fall-winter; winter-spring.

The program is posted on the Physical Education bulletin board two weeks prior to the registration dates.

PHYSICAL EDUCATION

Fall and Spring: archery; body conditioning; correctives; folk dance; golf; modern dance; movement education; swimming—all levels, including synchronized swimming, Red Cross lifesaving; water-safety instructor's course; tennis; volley ball.

Winter each term: archery (indoor); badminton; basketball; bowling (special fee—\$6.50); body conditioning; fencing; folk dance; golf; modern dance; movement education; swimming—all levels, including synchronized swimming, Red Cross lifesaving, water-safety instructor's course; tennis; volley ball.

Greek Games—athletics and dance are scheduled for the Spring Term indoor season only.

In all of these activities students are advised to register according to their skill level i.e., beginning, intermediate, or advanced.

Prescribed costume: Students are required to wear the regulation costumes indicated for the various activities classes. Approximate cost is \$22.

Recreational Leadership 1. 2 points. [13]

This course is planned to give students an understanding and appreciation of the field of recreation. Lectures, discussions, practice, and participation in activities, such as community music, arts and crafts, informal dramatics, story-telling, games. MRS. MASON. M W 4:10 and a third hour for field work.

PHYSICS

PROFESSORS: HENRY A. BOORSE (Chairman and Dean of the Faculty; 129 Milbank Hall), POLYKARP KUSCH

ASSISTANT PROFESSOR: PATRICK T. CAHILL

ASSISTANTS: _____, _____

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: SAMUEL DEVONS, HENRY M. FOLEY, WILLIAM W. HAVENS, JR.,
¹LEON M. LEDERMAN, ROBERT NOVICK, JAMES RAINWATER, JACK STEINBERGER

ASSOCIATE PROFESSORS: PAOLO FRANZINI, SVEN HARTMANN

ASSISTANT PROFESSORS: CHARLES BALTAY, GARY MITCHELL, SAMUEL TING

ADJUNCT PROFESSOR: ALFRED J. REDFIELD

Students interested in taking any course in physics should consult a member of the department, 223 Milbank. A student intending to major in physics should begin her courses in the freshman year, starting with Courses C1006y, C1007x, C1009x, C1008y, C1010y. In special cases students who have begun with Course 3-4 may continue as physics majors with a program to be worked out by the department. The first course for majors, C1006y, is given in the spring, to enable the student to complete the first term of the calculus sequence before beginning to study physics. Other courses to be taken subsequently by physics majors are arranged individually with the department; these should include four terms of the calculus sequence, or the equivalent, and one year of chemistry, though, in special cases, astronomy or biology may be substituted. The major examination consists of the Graduate Record Examination in physics and a one-hour oral examination.

The best opportunities for women in the field of physics are open to those with graduate training. Financial assistance is available to qualified graduate students in the form of fellowships, and teaching and research assistantships, offered by graduate schools throughout the country. For students both with and without graduate training many opportunities exist in laboratories operated by the federal government, e.g., by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission and the Public Health Service; in laboratories operated by state and local governments; and in laboratories operated by many industrial firms and research institutes. In particular, medical physics constitutes an important and growing field of specialization, while teaching in the public and private school systems offers challenging positions for those interested in education and public service.

C1001x, C1002y. Elementary Physics. 8 points.

An introductory treatment of crucial experiments and theories of physics: particle mechanics; heat and kinetic theory of gases; electromagnetism; wave motion; atomic spectra and the Bohr theory of the hydrogen atom; nuclear reactions; elementary particles. A terminal course for liberal arts students having no need

¹ On leave Spring Term.

for further scientific or professional training in physics. Prerequisite: high school mathematics through intermediate algebra. This course is not intended to fulfill the physics requirement for admission to medical school. Credit is not given for both Course C1001–C1002 and Courses C1006, C1007, C1008. Students who desire to take this course with laboratory should register for 5 points. Registration for laboratory section is optional and will be limited to the capacity of the laboratory. PROFESSOR DEVONS. Tu Th 11–12:15. Discussion: 1 hour, laboratory: 2 consecutive hours, to be arranged after first class meeting.

3–4. General Physics. 10 points. [7]

Autumn Term: Mechanics, heat, and optics. Spring Term: Electricity, magnetism, and modern physics. PROFESSOR CAHILL and assistants. Lec. Tu Th 10:35–11:50. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class.

C1006y. General Physics, I. Mechanics and Heat. 4 points.

Fundamental laws of mechanics: kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws. Prerequisite: Mathematics C1101, C1103 or C1107 or the equivalent. Parallel: Mathematics C1102, C1104 or C1108 or the equivalent. PROFESSOR STEINBERGER and DR. BALTAY. Lec. and recit. M W F 9. Problem section: two consecutive hours to be arranged.

C1007x. General Physics, II. Electricity and Magnetism. 3 points.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: Course C1006. Parallel: Course C1009 and Mathematics C1201, 1203 or 1207 or their equivalents. PROFESSORS HARTMANN and TING. Lec. and recit. M W F 9.

C1008y. General Physics, III. Light and Atomic Physics. 3 points.

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Course C1007. Parallel: Course C1010. PROFESSORS LEDERMAN and MITCHELL. Lec. Tu Th 10. Recit: one hour to be arranged after the first meeting.

C1009x, C1010y. Physical laboratory. 3 points.

Selected quantitative experiments in mechanics, heat, electricity, optics, and atomic and nuclear physics. Prerequisite: Course C1006. Parallel: Course C1007–C1008. PROFESSORS MITCHELL and TING. Three consecutive hours of laboratory to be arranged after the first lecture in Courses C1007 and C1008.

W3003x. Mechanics. 3 points.

Newtonian mechanics; conservative forces and potentials; oscillations; central forces. Prerequisite: general physics and integral calculus. PROFESSOR LEDERMAN. M W F 10.

W3007x, W3008y. Theory of Electricity and Magnetism. 6 points.

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treat-

BARNARD COLLEGE

ment is directed toward the formulation of Maxwell's equations and includes some application of general principles to phenomena associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisite: an intermediate course in electricity and magnetism (Course C1007 is equivalent) and differential and integral calculus. PROFESSOR KUSCH.
Lec. Tu Th 8:35–9:50 a.m.

W3072y. Seminar in Current Research Problems. 2 points.

A detailed study of a selected field of active research in physics. Informal discussion of the motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems in this particular field. Prerequisite: Course W3008 or the equivalent, and the permission of the departmental representative. -----, W 4:10–5:25.

W3081x, W3082y. Intermediate Laboratory Work. 2 to 8 points.

Experiments are available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member in charge about assignment to a laboratory section and the schedule of experiments to be performed. -----, One four-hour laboratory period weekly for each two points. Hours to be arranged by the instructor. Laboratory sections: M Tu W F 1:10–5; Th 6:30–10:30 p.m.; S 10–1:50.

GRADUATE COURSES

For further information, see the Announcement of the Graduate Faculties.

G4003x. Lagrangian Mechanics. 3 points.

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies. Normal coordinate treatment of coupled systems. Prerequisites: integral calculus and differential equations and Course W3003 or equivalent. PROFESSOR NOVICK. Tu Th 2:40–3:55. Problem session optional; hours to be arranged.

G4009y. Light. 3 points.

Physical and geometrical optics. Prerequisite: general physics and integral calculus. PROFESSOR RAINWATER. M W 4:10–5:25.

G4013x. Thermodynamics and Elementary Statistical Mechanics. 3 points.

General principles of thermodynamics; the two fundamental laws; entropy, free energy; thermodynamic potentials. The Maxwell-Boltzmann, Fermi-Dirac, and Einstein-Bose distributions. The relation of thermodynamics to statistical mechanics. Prerequisite: introductory physics, advanced calculus, Courses W3003 and W3007; parallel, Course G4015. PROFESSOR REDFIELD. M W F 11.

G4015x, G4016y. Atomic Physics and Introductory Quantum Mechanics. 6 points.

Spectroscopic and other phenomena which form the experimental basis of modern atomic physics. The interpretation of atomic structures and radiation phenomena

in terms of the quantum theory. Elementary wave mechanics is developed and applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms are treated by perturbation theory. The theory of spin and angular momentum. Prerequisite: Courses C1006, C1007, C1008, or their equivalents, and two additional terms of course work in intermediate or advanced physics. PROFESSOR FOLEY. M W F 9. Problem session optional; hours to be arranged.

G4040x. Nuclear Physics. 3 points.

An introductory course in nuclear physics. General properties of nuclei, the systematics of stable nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions and artificial radioactivity, neutrons and nuclear fission, properties and interaction of mesons. Prerequisite: Courses C1006, C1007, C1008, or their equivalents, and two additional terms of course work in intermediate or advanced physics, one of which should be Course G4015 or the equivalent. PROFESSOR FRANZINI. Tu Th 11–12:15.

G6014y. Kinetic Theory and Statistical Mechanics. 3 points.

Boltzmann gas theory and the approach to equilibrium studied via the Boltzmann equation. Transport phenomena in liquids and solids; irreversible thermodynamics and the Onsager reciprocal relationships; Brownian motion, fluctuations and noise phenomena. Prerequisite: Physics G4003 and G4013 or their equivalents.
-----, M W 2:10–3:25.

PSYCHOLOGY

PROFESSOR: RICHARD P. YOUTZ (Chairman; 302C Milbank Hall)

ASSISTANT PROFESSORS: PHEBE CRAMER, BARBARA MATES, BARBARA S. SCHMITTER, MICHAEL STUDDERT-KENNEDY

INSTRUCTOR: EDWARD S. COBB

LECTURER: PETER F. MACNEILAGE

ASSISTANTS: RONNIE BRANCAZIO, NANCY GLUCK, AMY GOLDBLATT, THOMAS E. HAGUE, CAROLYN SCHREIBER, SUSAN SCHULMAN, GOLDA SHATZ, DEENA WECHSLER

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major. A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology. Courses 1; 5; 8; 9; 12; one, or both, of 57 and 68, and other courses selected in consultation with the department to complete the required 28 points.

Other fields. One course in philosophy (3 points) or Anthropology 1, 2; a one-year laboratory course (8 points) in biology, physics, or chemistry.

(b) Students who plan to obtain post-graduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the general major, include Courses 16; 27, and at least two of the following: Courses 20; 21; 25; 38.

(c) Students interested in professional work in business or personnel may modify the requirements of the general major so that the required work in other fields is as follows: Economics 1-2; 17, 18; and 19.

(d) Students who wish to take post-graduate work in experimental psychology should add the following to the requirements for the general major: Courses 57 and 68. In other fields work should include: full-year laboratory courses in two of the following: biology, physics, or chemistry; mathematics through Course 16.

The major examination. This consists of sections on: (1) general information and integration (three hours); (2) experimental design and techniques (one hour); and (3) areas of special interest (two hours). Students fulfilling any one of the four plans will have completed preparation for the major examination.

LABORATORY SCIENCE REQUIREMENT: The degree requirement in laboratory science may be satisfied by taking any two of the following courses: 5; 8; 12; 17; 27; 30.

1x (or 1y). Introduction to Psychology. 3 points. [11]

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. PROFESSORS CRAMER, MATES, STUDDERT-KENNEDY, and YOUTZ, MR. COBB and DR. MACNEILAGE.

Autumn Term		Spring Term	
Section I	M W F 9.	Section I	M W F 9.
Section II	M W F 10.	Section II	M W F 10.
Section III	M W F 11.	Section III	M W F 11.
Section IV	Tu Th 10:35–11:50.	Section IV	Tu Th 10:35–11:50.

5. Psychology of Learning. 4 points. [8]

The basic methods, results, and concepts in the experimental analysis of learning. The laboratory work consists of a series of individual experiments, several group experiments, and the preparation of systematic reports of results. Prerequisite: Course 1 or the equivalent. MR. COBB and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) M 1:10–4, Th 2:10–5, F 1:10–4.

5a. Psychology of Learning. 2 points. [8]

Lectures identical with those of Course 5. No laboratory work. Prerequisite: Course 1 or the equivalent. MR. COBB. Tu Th 11.

8. Perception. 4 points. [8]

An introduction to the problems, methods and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Course 1 or the equivalent. PROFESSOR STUDDERT-KENNEDY and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) M 1:10–4; Th 2:10–5.

8a. Perception. 2 points. [8]

Lectures identical with those of Course 8. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR STUDDERT-KENNEDY. Tu Th 11.

9. Statistical Design. 4 points. [2]

An introduction to statistics and experimental design in psychology and allied subjects. Descriptive statistics, probability, and elementary procedures of statistical inference will be treated. The laboratory will provide students with empirical demonstrations of theorems used, but not mathematically derived, in the lectures, together with practice in the application of elementary statistical methods. Prerequisite: Course 1 or the equivalent. PROFESSOR STUDDERT-KENNEDY and assistant. Lec. M W F 10. Lab. (2 hours) M 1:10–3, Tu 2:10–4.

12. Psychological Measurement. 4 points. [2]

Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research

related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Prerequisite: Course 1 and one course in statistics. PROFESSOR SCHMITTER and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W 2:10-5, Th 2:10-5.

12a. Psychological Measurement. 2 points. [2]

Lectures identical with those of Course 12. No laboratory work. Prerequisite: Course 1 and one course in statistics. PROFESSOR SCHMITTER. M W 10.

16. Theories of Learning. 3 points. [6]

A comparative study of the major scientific accounts of the learning process. The course stresses exposition and evaluation of each theory in terms of structure, scope, research, and potential applications, and in relation to other forms of psychological theory. Prerequisite: Course 5 or 5a or the equivalent. MR. COBB. Tu Th 9:10-10:25.

17. Physiological Psychology. 4 points. [4]

An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 5 or 8 or the equivalent. DR. MATES and assistant. Lec. M W 1:10-2. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 2:10-5.

17a. Physiological Psychology. 2 points. [4]

Lectures identical with those of Course 17. No laboratory work. Prerequisite: Course 5 or 8 or the equivalent. DR. MATES. M W 1:10-2.

20. Language and Speech Development and Disorders. 4 points. [4]

The psychological study of language and speech. Consideration of language and speech perception, cognition, and production, normal development and pathology. Methods of experimental study, various theories, and problems are treated. The laboratory consists of relevant experiments and projects, with systematic reports. Prerequisite: Course 1 or the equivalent. DR. MATES and assistant. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 2:10-5.

21. Abnormal Psychology. 3 points. [4]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class makes two trips to institutions for demonstrations of psychoses and deficiencies. Open to juniors and seniors who have had Course 1. PROFESSOR YOUTZ. M W 1:10 and consultation in connection with readings for the third point.

[24. Applications of Psychological Techniques. 4 points. DR. MATES.

Not given in 1966-67.]

- 25. Psychology of Personality.** 3 points. [2]
Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Points of view discussed include those of Freud, Adler, Jung, neo-Freudians such as Horney and Sullivan, and others, including Murray and Kelly. Consideration is given to clinical applications of the theories. Prerequisite: Course 1 or the equivalent. PROFESSOR SCHMITTER. M W F 10.
- 27. Developmental Psychology.** 4 points. [3]
Comparative and experimental analysis of transitions from simple to complex behavior characteristics of individual and evolutionary development. Major emphasis on human ontogeny from conception to maturity. The laboratory includes experiments and demonstrations of (a) genetic and environmental factors in behavior development of animals and (b) comparative studies of sensori-motor, intellectual, linguistic, and social development of children. Prerequisite: Course 1 or the equivalent. PROFESSOR CRAMER and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10–5, W 1:10–4.
- 27a. Developmental Psychology.** 2 points [3]
Lectures identical with those of Course 27. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR CRAMER. M W 11.
- 30. Psychology of Thinking.** 4 points. [3]
Survey of contemporary experimental approaches to the understanding of concept formation and problem-solving behavior, derived from learning theory, psycho-linguistics, logic, and information theory. The laboratory will consist of experiments and demonstrations of thinking behavior in animals, children, and adults. Prerequisite: Course 5 or 5a. PROFESSOR CRAMER and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10–5, W 1:10–4.
- 30a. Psychology of Thinking.** 2 points. [3]
Lectures identical with those of Course 30. No laboratory work. Prerequisite: Course 5 or 5a. PROFESSOR CRAMER. M W 11.
- 38. Social Psychology.** 3 or 4 points. [6]
An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. May be counted toward the requirement in contemporary society. PROFESSOR STUDDERT-KENNEDY. Tu Th 9:10–10:25, and conference hour in connection with a project or paper for the fourth point.
- 45x (or 45y). Field Work.** 1 or 2 points. [0]
A field work project may be undertaken in connection with any course except Course 1. The project should be planned in conjunction with the course instructor; written permission is required. Hours to be arranged.

BARNARD COLLEGE

48x (or 48y). Individual Projects. 1, 2, or 3 points. [0]

Research projects will be planned in consultation with members of the department. Open to majors who have had Courses 5 and 8, on written permission of the member of the department who supervises the project. MEMBERS OF THE DEPARTMENT. Hours to be arranged.

57. Systems of Psychology. 3 points. [8]

A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Prerequisite: Courses 5 and 8 or the equivalent. PROFESSOR YOUTZ. Tu Th 11.

68. Case Histories in Experimental Design. 3 points. [8]

Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Courses 5 and 8 or the equivalent. PROFESSOR YOUTZ. Tu Th 11.

RELIGION

PROFESSOR: THEODOR H. GASTER

ASSOCIATE PROFESSOR: HAROLD STAHMER (Chairman; 27 Milbank Hall)

LECTURER: AURELIÀ T. FÜLE

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: JOSEPH L. BLAU, HORACE L. FRIESS, THOMAS F. O'DEA, JACOB TAUBES

ADJUNCT PROFESSOR: JOHN MEYENDORFF

ASSISTANT PROFESSOR: PETER A. PARDUE

INSTRUCTORS: HENRY BOOKOUT, JR., ROBERT F. OLSON

The purpose of the program is to introduce the field of religion, to present the documents, history and thought of the great religious traditions of East and West, and to consider their influence upon contemporary questions.

The program of study for a major in religion is to be planned in consultation with members of the department by the end of the sophomore year. The student chooses one of two sequences of study: A. Western Religion and the Theory and Functions of Religion. B. Eastern Religion and the Theory and Functions of Religion.

Courses: Normally 30 points including Course V1101, V1102 and six points of seminar work. Students specializing in Sequence A should include a minimum of three points in Eastern Religion and three points in the Theory and Functions of Religion. Students specializing in Sequence B should include a minimum of three points in Western Religion and three points in the Theory and Functions of Religion. Students are expected to take 12 points of course work in two related departments. All course selections must be made in conjunction with the major adviser. Students considering graduate work are strongly advised to develop a reading knowledge of such languages as Hebrew, Greek, Latin, and Chinese, depending on the area of concentration.

The comprehensive examination consists of: One three-hour paper of a theoretical and interpretive nature followed at another time by an oral discussion of the paper with staff members.

A senior essay is not obligatory; however, students of high standing may be invited to submit one as a fulfillment for Course 35, 36. In that case students should submit a proposed topic for their research by April 1 of their junior year.

V1101x, V1102y (or V1102x, V1101y). Introduction to the Study of Religion.
6 points.

The phenomenology of religious experience and the historical forms of religious life. A study of the presuppositions, data and documents of the religions of East and West. Autumn Term: The ancient religions of the Near East and Greece; major themes in Judaism and Christianity. Spring Term: Recurrent themes in religions of the East. MEMBERS OF THE DEPARTMENT.

Section I M W 2:10–3:25

Section II Tu Th 10:35–11:50. (Primarily for Barnard students)

BARNARD COLLEGE

Section III	M W 5:40–6:55.	
Section IV	M W F 9:00–9:50.	(Primarily for Barnard students)
Section V	Tu Th 2:10–3:25.	
Section VI	M W F 11:00–11:50	(Primarily for Barnard students)
Section VII	M W 11:00–12:15 (V1102x, V1101y).	For those wishing to begin the course with the study of Eastern religions.

WESTERN RELIGION

V3201x. Introduction to the Old Testament. 3 points.

Hebrew religion. Its beginning and nature. Ancient myths, stories, and records. Moses: Israel as the covenant people. The prophets. The exile and development of Judaism. PROFESSOR GASTER and MR. BOOKOUT.

Section I Tu Th 9:10–10:25. (Primarily for Barnard students)

Section II Tu Th 6:10–7:25 p.m.

V3202y. Introduction to the New Testament. 3 points.

The Graeco-Roman world and Jewish background of the first century. The Gospels. The letters of St. Paul. The Book of Acts. The spread of Christianity. DR. FÜLE and MR. BOOKOUT.

Section I M W F 2:10–3. (Primarily for Barnard students).

Section II Tu Th 6:10–7:25 p.m.

[W3214y. Introduction to Talmudic Literature. 3 points. PROFESSOR WEISS.

Not given in 1966-67.]

14x. Early Christianity in the Light of the Classical Heritage. 3 points [1]

The Church in the world of the Roman Empire. The transformation and incorporation of Greek and Roman religion and philosophy by the Church Fathers. DR. FÜLE. M W F 2:10–3.

15, 16. History of Religious Thought in the West. 6 points. [8]

Autumn Term: Representative religious thinkers from Augustine to Ockham with emphasis upon the faith-reason and universals controversies, the presuppositions of medieval theology, and the significance of the trivium and chiliastic writings. Spring Term: Representative religious thinking from the Renaissance to 1900 with emphasis upon attitudes toward Biblical translation, language, millenarian tendencies and the presuppositions of selected religious communities and theological systems. PROFESSOR STAHLER. Tu Th 10:35–11:50.

W3242y. Eastern Christian Thought. 3 points.

The development of the religious mind in the Christian East since the time of the Greek Fathers. The Byzantine Church: institutions, theology, monasticism, religious art. The Byzantine spiritual and intellectual legacy in the Balkans and the Middle East. Russian religious thought. PROFESSOR MEYENDORFF. Tu 3:40–6:30.

[W3234y. **Catholic Thought After Trent.** 3 points. PROFESSOR ULANOV.
Not given in 1966-67.]

G4207x, G4208y. **History of Judaism.** 3 points.

History of the Jewish religion from its beginning to contemporary manifestations in Israel and the United States. Autumn Term: Early background and formation of Judaism. Spring Term: Rabbinic period to the present. PROFESSOR BLAU.
M 7:10–9 p.m.

31. **Ancient Near Eastern Religions.** 3 points. [9]

A comprehensive introduction to the religious ideas, practices, and writings of the Egyptians, Mesopotamians, Hittites, Canaanites, and Israelites. The texts are read in translation. Prerequisite: Course V1101 or written permission of a departmental representative. PROFESSOR GASTER. Tu Th 2:10–3:25.

EASTERN RELIGION

W3251y. **History of Hinduism.** 3 points.

The relationship between Hindu religious values and Indian social institutions. Problems of defining "Hinduism" within the wider range of India's cultural life, and its development in dialogue with other religions and ideologies in its environment. Prerequisite: Course V1102 or permission of the instructor. PROFESSOR PARDUE, Tu Th 2:10–3:25.

W3252x. **History of Buddhism.** 3 points.

Change and continuity in the development of Buddhist thought and institutions during the expansion of Buddhism from India to Tibet, China, and Japan. Prerequisite: Course V1102 or permission of the instructor. MR. OLSON.
Tu Th 2:10–3:25.

W3253x. **Chinese and Japanese Religious Thought.** 3 points.

A study of both native religious and philosophical movements and Buddhist developments in China and Japan. Prerequisite: Course V1102 or permission of the instructor. MR. OLSON. Tu Th 11:00–12:15.

THEORY AND FUNCTIONS OF RELIGION

25. **Religion in Contemporary Society.** 3 points. [9]

An introduction to the theological and intellectual background of religion in contemporary America. Occasional guest lecturers will discuss relevant legal, sociological, and theological questions. Term paper optional. May be counted toward the contemporary society requirement. Open to all except freshmen. PROFESSOR STAHER. Tu Th 2:10–3:25.

26. **Religion in Contemporary Culture.** 3 points. [9]

Religion, its meaning and expression in contemporary culture. The impact of modern social and psychological theories on religious ideas of human nature.

BARNARD COLLEGE

Problems of alienation, adaptation, and identity. Visiting lecturers present viewpoints of contemporary literature and of the social and psychological disciplines. Term paper or short reports. May be counted toward the contemporary society requirement. Open to all except freshmen. PROFESSOR STAHER. Tu Th 2:10-3:25.

Religion-Sociology G4400x. Sociology of Religion. 3 points.

Religion in relation to social structure, social processes, and social change: problems in the functioning of religious institutions in the context of secular society; a functional typology of religious roles and groupings. Prerequisite: Junior or senior standing and work in either religion or sociology. PROFESSOR O'DEA. M 3:10-5.

Anthropology V3042x. Primitive Religion. 3 points.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. PROFESSOR KLASS. M W F 2:10.

G4401y. Role of Language in Religious Existentialism. 3 points.

The significance of the spoken word, encounter, and time in the writings of J. G. Hamann, Martin Buber, Ferdinand Ebner, Franz Rosenzweig, and Eugen Rosenstock-Huessy. Prerequisite: permission of the instructor. PROFESSOR STAHER. W 3:10-5.

SEMINARS AND READING COURSES

G4453y. Hegel and Heidegger. 3 points.

A detailed examination of selected writings of Hegel and Heidegger, with an analysis of their contrasting historicist perspectives on major themes of the classic philosophical tradition. Prerequisite: Junior or senior standing and the instructor's permission. PROFESSOR TAUBES. Tu 4:10-6.

G4411x. Methodology in the Study of Religion. 3 points.

The methodological concepts involved implicitly and explicitly in various approaches to the study of religion; the implications and consequences of these concepts for inquiry into the field of religion. Undergraduates who are not religion majors must obtain the permission of the department. PROFESSORS FRIESS and STAHER and MEMBERS OF THE DEPARTMENT. W 3:10-5.

W3503x, W3504y. Seminar: Western Religious Thought. 6 points.

Autumn Term: Chief directions and themes of western religious thought during the late eighteenth and nineteenth centuries when ideas of human nature and mind had become central to interpretation. Spring Term: The Intertestamental period with special reference to the Dead Sea Scrolls. Autumn Term: PROFESSOR FRIESS. M 3:10-5. Spring Term: PROFESSOR GASTER. Tu 3:10-5.

W3551x, W3552y. Seminar: Eastern Religious Thought. 6 points.

Autumn Term: The Upanishads. The Early Upanishads; problems in their interpretation; their relation to earlier and later Indian thought and values. Spring Term: Yoga: The problems of the origins of Yoga and its related ideologies, its de-

velopments in Jainism, Buddhism, and Hinduism. Either term may be taken separately. MR. OLSON. W 1:10—3:00.

35, 36. Guided Reading and Research. 6 points. [0]

A program of study designed to give outstanding majors in religion an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser.

PROFESSORS GASTER and STAHMER and MEMBERS OF THE DEPARTMENT.

RUSSIAN

ASSOCIATE PROFESSOR: RICHARD F. GUSTAFSON (Chairman; 23 Milbank Hall)

INSTRUCTORS: LYDIA KESICH, ZOYA TRIFUNOVICH

ASSOCIATES: NATHALIE S. NABOKOFF, ANATOLY K. SAPRONOW

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: RUFUS W. MATHEWSON, JR.

ASSOCIATE PROFESSORS: RICHARD A. GREGG, ROBERT A. MAGUIRE

INSTRUCTOR: MARINA LEDKOVSKY

ASSOCIATE: ROSE RASKIN

The Russian Department offers courses in both language and literature. Besides a full four-year sequence in language work, there are specialized courses in major Russian authors and important periods in Russian literature. For those who know no Russian, the department also gives a series of courses in Russian literature taught in English.

The major in Russian at Barnard is a liberal arts program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting literary texts, and a comprehensive knowledge of Russian literature, especially of the nineteenth and twentieth centuries. Students will be encouraged to take one year of Russian history and to select relevant courses in philosophy, art, music, and other literatures. The requisites to the major, in most cases to be completed before the junior year, are Russian 4 (or its equivalent) and Russian V1225x, V1226y. The minimum for the major is 28 points in language and literature; the emphasis will depend upon the student's interests. No courses with readings exclusively in English may be included in the minimal major program. All majors are required to take Russian V3595x-V3596y.

The major examination consists of a four-hour written section, partially in Russian, and an oral section conducted entirely in Russian. A senior essay is required as part of the senior seminar.

Foreign language requirement for the degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete a full third-year course in language or literature, or one semester of such a course with a minimum grade of B+.

LANGUAGE COURSES

1-2. Elementary Full-year Course. 8 points. [15]

Grammar, reading, composition. Oral practice in small groups. Language laboratory work required. Language analysis: PROFESSOR GUSTAFSON and MRS. KESICH. Section I M W F 10. Section II M W F 12:10. Oral practice: MRS. NABOKOFF. M W 2:10, M W 3:10, Tu Th 9, Tu Th 10 or, Tu Th 11. Other hours to be arranged.

3—4. Intermediate Course. 8 points. [15]

Grammar review, composition, reading. Oral practice in small groups. Language laboratory work required. Prerequisite: Course 2 or the equivalent. Language analysis: MRS. TRIFUNOVICH. Section I M W F 10. Section II M W F 12:10. Oral practice: MR. SAPRONOW. M W 10, M W 11, M W 1:10, Tu Th 10, or Tu Th 11. Other hours to be arranged.

V3335x—V3336y. Advanced Language Course, Third Year. 8 points.

For students who want more skill in writing, speaking, and reading Russian. Recommended for students who plan to use Russian in their studies. Prerequisite: Course 4 or equivalent. Miss RASKIN. M W F 2:10. Oral practice sessions to be arranged.

V3443x—V3444y. Advanced Russian: Syntax and Style. 6 points.

Studies in Russian syntax designed to improve the students' spoken and written Russian. Problems of different styles and levels of language, word usage, and idiomatic expression will be explored in some detail. Frequent compositions, practice in reading various kinds of Russian, oral reports, and discussion. Prerequisite: three years of Russian or the instructor's permission. MRS. TRIFUNOVICH. M W F 2:10.

9, 10. Advanced Language Practice. 4 points. [0]

Oral work in very small groups, weekly compositions, individual conferences with instructor. Designed to meet the particular needs of each student. Required of all senior majors not currently enrolled in a Russian language course. Recommended to students in advanced literature courses in Russian. MR. SAPRONOW. Hours to be arranged.

LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

§5, 6. Readings in Russian Literature. 6 points. [4]

Reading and analysis of nineteenth and twentieth-century literary texts. Lectures, compositions, class discussion, oral reports in Russian. Prerequisite: Course 3—4 or an appropriate score on the placement examination. MRS. LEDKOVSKY. M W F 1:10.

V1225x, V1226y. Survey of Russian Literature. 6 points.

Literature from the beginning through the Revolution, with emphasis on the prose masterpieces of the nineteenth century. The historical background. The second term may be taken without the first. A knowledge of Russian is not required. One term paper each semester. PROFESSOR GUSTAFSON. M W F 11.

V1227y. Tolstoy and Dostoevsky. 3 points.

Analysis of the major works of the two writers. A knowledge of Russian is not required. PROFESSOR GREGG. M W F 12.

[V1229x. Russian Drama and Theatre. 3 points. PROFESSOR BELKNAP.

Not given in 1966-67.]

BARNARD COLLEGE

§V3333x. Russian Prose of the Nineteenth Century. 3 points.

A close reading in the original of works by Lermontov, Gogol, Turgenev, Tolstoy, Dostoevsky, and Chekhov. Roughly equal attention to literary and linguistic problems. Prerequisite: a grade of B— or better in Course 4, or the equivalent of five terms of Russian. MRS. LEDKOVSKY. M W F 10:00.

§V3334y. Pushkin. 3 points.

A close reading of selected works in the original, with lectures on Pushkin's life, times, and literary achievement. Prerequisite: a grade of B— or better in Course 4, or the equivalent of five terms of Russian. PROFESSOR GUSTAFSON. M W F 10:00.

§V3463x. Tolstoy. 3 points.

A close reading in the original of Tolstoy's shorter fiction. Prerequisite: three years of Russian or the instructor's permission. PROFESSOR GUSTAFSON. M W F 1:10.

§F3867x. Readings in Russian Poetry. 3 points.

Extensive readings in Russian poetry from the second half of the eighteenth century to the present. Conducted partly in Russian. Prerequisite: three years of Russian or the instructor's permission. MISS RASKIN. M F 4:10–5:25.

§G4461y. Chekhov and The Short Story. 3 points.

A selection of stories is read in Russian to explore the world of Chekhov's fiction and to isolate the characteristics of the short story form as he practices it. Prerequisite: the instructor's permission. PROFESSOR MATHEWSON. Tu Th 11–12:15.

V3595x–V3596y. Seminar. 8 points.

Autumn Term: Readings and short papers on a specialized topic in Russian literature. Spring Term: Supervised individual research, culminating in a critical paper. Prerequisite: senior standing and the instructor's permission. PROFESSORS MAGUIRE and GREGG. W 3:10–5.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the representative and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

G4103x. History of the Russian Language: Introductory Course. 3 points. PROFESSOR UNBEGAUN. F 2:10–4:00.

G4007x. Russian Literary Criticism in the Nineteenth Century (in Russian). 3 points. MR. ADAMOVICH. M F 4:10.

G4033x. Soviet Russian Literature. 3 points PROFESSOR MAGUIRE. Tu Th 5:10.

SOCIOLOGY

PROFESSORS: BERNARD BARBER, MIRRA KOMAROVSKY (Chairman; 402 Lehman Hall)

ASSOCIATE PROFESSOR: GLADYS MEYER

ASSISTANT PROFESSOR: ROBERTA G. SIMMONS

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, preliterate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1–2 and other sociology courses to be selected in consultation with the major adviser. Courses 32; 33; 34; 39; 40; 41, 42; 43, 44 are strongly recommended. Economics 17 is the only course given outside the department which may count towards the major.

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

1, 2. Introduction to Sociology. 6 points.

An introduction to sociological analysis with emphasis on contemporary American society. Autumn Term: The structure of society. The family and the other major social institutions; class stratification; social groups; ecology of modern communities. Spring Term: Social change and social problems. Population, race and group conflict, social disorganization and crime. Problems of social reorganization. Fulfills the requirement in contemporary society. Open to freshmen. Course 1 is a prerequisite to Course 2. PROFESSORS BARBER, KOMAROVSKY, MEYER, and SIMMONS.

Section I	M W F 10.	[2]	Section IV	M W F 3:10.	[10]
Section II	M W F 11.	[3]	Section V	Tu Th 9:10–10:25.	[6]
Section III	M W F 2:10.	[5]			

1y. Introduction to Sociology. 3 points.

Same as Course 1

Section I	M W F 10.	[2]
Section II	M W F 11.	[3]

BARNARD COLLEGE

21. Poverty and the State. 3 points. [8]

Social and economic conditions which have led to tax supported welfare programs. Problems of administration, personnel, and citizen pressure. Comparative study of philosophy, structure and coverage in the U.S., England and France. The role of the social worker in a public welfare setting. Open to juniors and seniors. Prerequisite: six points of social science other than history. Field work or a paper is required. Students electing field work must reserve one free afternoon a week. PROFESSOR MEYER. Tu 10:35–12:15.

22. Introduction to Social Work. 3 points. [8]

The growth of the profession. Intellectual influences which have shaped its development. The traditional fields of practice. The structure and function of voluntary agencies. Open to juniors and seniors. Prerequisite: six points of social science other than history. Field work or a paper is required. Students electing field work must reserve one free afternoon a week. PROFESSOR MEYER. Tu 10:35–12:15.

32. The Family. 3 points. [2]

A study of the American family using comparative materials from other societies. The family cycle with special emphasis upon the marriage relationship. Ethnic and class differences. Implications of changing family patterns for other social institutions and for the individual. Prerequisite: Course 1, 2. PROFESSOR KOMAROVSKY. M W F 10.

33. The Community. 3 points. [4]

Analysis of community structures. The declining community; the developing community. Problems of power. Examination of classical and current community research. The relation of research to policy and planning. Prerequisite: Course 1, 2. PROFESSOR MEYER. M W F 1:10.

34. Ethnic and Minority and Intergroup Relations. 3 points. [4]

The composition and distribution of populations, major and minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1, 2. PROFESSOR MEYER. M W F 1:10.

38. Special Readings. 3 points. [0]

Students will read selected classics and other books and monographs exemplifying important developments in contemporary sociology. Brief written assignments. Prerequisite: Course 1, 2. PROFESSOR KOMAROVSKY. M W 11.

39. Comparative Social Institutions. 3 points. [5]

The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (U.S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1, 2. PROFESSOR BARBER. M W F 2:10.

- 40. Social Stratification.** 3 points. [5]
 General theory of social stratification. Comparative materials from other civilized (China, India, medieval Europe) and contemporary (U.S., Soviet Russia, England, France) societies. Current processes and change emphasized. Prerequisite: Course 1, 2, or permission of the instructor. PROFESSOR BARBER. M W F 2:10.
- 41, 42. History of Sociological Theory.** 6 points. [9]
 The major contributions of Comte, Spencer, Sumner, Cooley, Durkheim, Simmel, Weber, Sorokin, Parsons, Merton, and other contemporary American sociologists. Prerequisite: Course 1, 2. PROFESSOR KOMAROVSKY. Tu 2:10-4.
- 43, 44. Methods of Sociological Research.** 6 points. [10]
 Various qualitative and quantitative methods of social research are presented both from a logical and a sociological point of view. Lectures, critical reading of studies in conjunction with field work exercises. Prerequisite: Course 1, 2. Course 43 is prerequisite for Course 44, except by special permission of the department. PROFESSOR SIMMONS. M W F 3:10.
- 45. Social Structure and Personality.** 3 points. [2]
 Critical examination of the theory and research studies dealing with the relations between social structure and personality. Prerequisite: Course 1, 2. ————. M W F 10.
- 97. Senior Seminar.** 3 points. [0]
 Social change in underdeveloped areas (Asia, Sub-Saharan Africa, Latin America). Prerequisite: Course 1, 2. PROFESSOR MEYER. Th 3:10-5.
- 87, 88. Individual Projects.** 6 points. [0]
 Individual study under supervision of members of the department. Open to senior majors with the permission of the instructor. PROFESSORS KOMAROVSKY, MEYER, and SIMMONS. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. Among those suitable for Barnard students the following are recommended:

G4053x—G4054y. Changing Institutions in New Nations.

PROFESSOR WALLERSTEIN. Th 4:10-6.

G6093x. Public Opinion Research and the Modern Tradition.

PROFESSOR HYMAN. W 10-11:50.

G6094y. The Communication Process.

PROFESSOR HYMAN. Th 2:10-4.

SPANISH

PROFESSOR: EUGENIO FLORIT

ASSOCIATE PROFESSORS: MARGARITA UCELAY DA CAL, LAURA R. DE GARCÍA-LORCA (Chairman; 17 Milbank Hall)

ASSISTANT PROFESSOR: MIRELLA DE SERVODIDIO

INSTRUCTORS: LAMBERTO CANO, MARIA MARCH, FEDERICO SERRA-LIMA

A major in Spanish is designed to enable the student to understand, speak, and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish-American world, with a more profound knowledge of the literature and art of Spain and the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel, or the theatre, or a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13–14; 17, 18; 20; 23; 25, 26; 29; and either 31–32 or 33–34, and the senior seminar, (35). Courses 1–2; 3, 4; 5, 6 and 9, 10 do not count towards the major requirement.

Other fields: The following courses are recommended: Anthropology 9; Classical Civilization 32; Art History 75, 76; French 21–22; German 55; 56; Italian V3333x–V3334y; Philosophy 1; 61, 62; Religion V1101x. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Spanish must take a placement examination before registration. The student will be tested in her knowledge of grammar and her ability to understand, speak, and write Spanish. Those who receive a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 7, 8, or Course 7 with a minimum grade of B+.

LANGUAGE COURSES

1–2. Elementary Full-Year Course. 8 points. [17]

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. MR. CANO, MISS MARCH, and MR. SERRA-LIMA.
Section I M Tu W Th F 9. Section II M Tu W Th F 2:10.

3, 4. Intermediate Course. 6 points. [17]

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish-American literatures. Monthly book reports on outside reading. MISS MARCH and MR. SERRA-LIMA.
Section I M W F 9. Section II M W F 10. Section III M W F 1:10.

5, 6. Advanced Course in Grammar and Composition. 6 points. [3]

Given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions on outstanding novels and poetry. Monthly book reports on outside reading. MR. CANO. M W F 11.

7, 8. Spanish through Literary Analysis. 6 points. [17]

Readings in 20th century works as a basis for improving the comprehension of written and spoken Spanish. Special emphasis on syntax and translation. Weekly compositions. Prerequisite: Courses 3, 4 or 5, 6. MR. CANO, MISS MARCH, and MR. SERRA-LIMA. Section I M W F 10. Section II M W F 11. Section III M W F 1:10.

9, 10. Intermediate Spanish Conversation. 2 points. [0]

Open only to students taking another Spanish course, either term. MR. CANO. Tu 3:10.

11, 12. Oral Spanish, Advanced Course. 4 points. [0]

Discussion based on contemporary Hispanic writers and literary trends, and on Spanish painters; practice in the recitation of poetry and plays. Prerequisite: Courses 3, 4 or 5, 6, or permission of instructor. Two class hours and one conference. PROFESSOR UCELAY DA CAL. M W 2:10.

LITERATURE COURSES¹

Courses marked thus § will count toward the college requirement in literature.

13–14. The Culture of Spain. 4 points. [6]

The history and culture of Spain. A study of the origins and evolution of Spanish character, tradition, and thought. The interrelationship of its history and arts and the scope of its contribution to Western culture. Autumn Term: From the beginnings to Ferdinand and Isabella. Spring Term: From the Renaissance to the present. Lectures and monthly book reports. The use of audio-visual materials will be stressed. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8. PROFESSOR GARCÍA-LORCA. Tu Th 9.

§15–16. Introduction to Spanish Literature. 6 points. [3]

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8. MISS MARCH. M W F 11.

§17. Spanish Literature in the Middle Ages and the Renaissance. 3 points. [2]

Spanish literature from its origins to the end of the Renaissance. Monthly book reports on novels or dramas. Intended for students majoring in Spanish and non-majors fluent in the language. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15–16. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8. PROFESSOR GARCÍA-LORCA. M W F 10.

¹ All courses are conducted entirely in Spanish except Course 37, 38 and 39, 40.

BARNARD COLLEGE

§18. Spanish Literature from the Golden Age to the Enlightenment. [2]
3 points.

Lectures, reading and discussion. Monthly written reports. Intended for students majoring in Spanish and non-majors fluent in the language. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15-16. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8, or 17. PROFESSOR GARCÍA-LORCA. M W F 10.

§20. Don Quijote. 3 points. [4]

Lectures, reading, and discussion. Monthly book reports on the outstanding critics of Cervantes' masterpiece. Prerequisite: Courses 15-16, 17; 18 or written permission of the instructor. PROFESSOR UCELAY DA CAL. M W F 1:10.

§21-22. The Spanish Drama. 6 points. [3]

Autumn Term: Readings and discussion of the medieval antecedents and the sixteenth-century theater, including Lope de Vega and his followers. Spring Term: The theater from Calderón to our days. One term paper each semester. Prerequisite: Courses 15-16 or 17; 18 or written permission of the Department. PROFESSOR UCELAY DA CAL. M W F 11.

§23. Nineteenth Century Literature in Spain. 3 points. [4]

Romantic drama and poetry; the realistic novel. A paper on Galdos. Prerequisite: Courses 15-16 or 17; 18, or the written permission of the department. PROFESSOR UCELAY DA CAL. M W 1:10.

§25, 26. Contemporary Spanish Literature. 6 points. [9]

Autumn Term: characteristics, technique and style of the writers of the generation of '98, from Unamuno to Juan Ramón Jiménez (Baroja, Valle Inclán, Azorín, Benavente and A. Machado will be specifically studied). Two papers. Spring Term: the ideas, trends, and new literary concepts from Ortega y Gasset to the present day writers. (Special attention will be given to Pérez de Ayala, Miró, Gómez de la Serna, Salinas, Guillén, García-Lorca and Alberti). Two papers. Prerequisite: Courses 15-16 or 17; 18 or the written permission of the instructor. PROFESSOR GARCÍA-LORCA. Tu Th 2:10.

[§27-28. Spanish Poetry. 6 points. PROFESSOR FLORIT.

Not given in 1966-67.]

§29. Spanish-American Culture. 3 points. [7]

The history and culture of Spanish-America. A study of the origins and evolution of the Spanish-American character, tradition, and thought. The interrelationship of its history and arts. Lectures and monthly book reports. The use of audio-visual materials will be stressed. Prerequisite: Courses 3, 4, 5, 6, 7, 8. PROFESSOR FLORIT. Tu Th 10.

§31-32. Spanish American Literature. 4 points. [8]

Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circum-

stances. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR FLORIT. T Th 11.

[§33–34. **Great Figures of Spanish-American Literature.** 4 points. PROFESSOR FLORIT.

Not given in 1966-67.]

35. Senior Seminar. 2 points. [0]

Intended to supplement or coordinate the work done in other courses and to introduce the student to the methods of scholarly research. Open only to seniors. PROFESSORS UCELAY DA CAL and GARCÍA-LORCA. W F 2:10.

[37, 38. **Introduction to the Literature of Spain in Relation to the Kindred Arts** (in English). 4 points. PROFESSOR SERVODIDIO.

Not given in 1966-67.]

39, 40. Great Literary Figures of the Spanish Golden Age (in English). [17]

First semester: Cervantes; trends in Spanish prose leading to *Don Quijote* and repercussions in later works. Second semester: Lope de Vega and Calderón; characteristics and development of the Spanish theater. PROFESSOR SERVODIDIO. Tu Th 3:10.

C3811x–C3812y. Latin-American Seminar. 8 points.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-American Areas. PROFESSORS DE MORELOS and RABASSA. M 3:10–5.

VIII. Professional Schools

Professional and graduate training is available at Columbia University in many different areas. Barnard College keeps in close touch with the Schools and the Graduate Faculties, and class and major advisers give pertinent advice concerning them.

The requirements for admission vary. In some instances a Bachelor's degree is essential; in others a student is eligible after two or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Announcements may be obtained from the Secretary of Columbia University. General information concerning admission requirements of specific professional schools and certain graduate programs follows.

THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in a professional school. To be eligible for this privilege the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

ARCHITECTURE

The School of Architecture offers courses of study leading to the degree of Bachelor of Architecture. Under normal conditions, the degree may be obtained in four years.

The minimum course requirement for admission to the school is 60 points of course work, including the following: English composition and literature, a foreign language (preferably French or German), mathematics through differential and integral calculus, physics, and either economics, history, government, or sociology. The courses are described in detail in the Bulletin of the School of Architecture. A copy may be obtained from the Office of University Admissions. Since preference is given to those applicants who hold an undergradu-

ate degree, students are advised to follow the professional option program described above.

BUSINESS

The Graduate School of Business offers a four-term course of study leading to the degree of Master of Business Administration. The School operates on a non-mandatory trimester academic schedule, thereby making possible the completion of the program in 16 months. Advanced studies lead to the degree of Doctor of Philosophy.

The School has available, through its several programs of student aid, the means to assist all those who require marginal help to carry a full program of daytime classes. Applications for the degree programs are accepted from students who are able to take advantage of continuous study on a full-time basis and who have earned the baccalaureate or its equivalent.

A limited number of special students with unique and appropriate qualifications are admitted for study without degree credit after an interview with the Assistant Dean.

DENTAL HYGIENE

A two-year course for dental hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following: English, six points; chemistry, four points; sociology, three points; psychology, three points. Applicants who lack not more than eight of the 60 credits required for admission will be considered for matriculation on condition that the eight credits be earned during the summer session between the junior and senior years.

This profession is controlled by state law and licensing examination. Graduates are qualified as dental hygiene teachers and public health dental hygienists.

Scholarship aid is available.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of eight points each in English composition and literature, physics, biology, inorganic chemistry, and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental

BARNARD COLLEGE

record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

Scholarship aid for women is available.

ENGINEERING AND APPLIED SCIENCE

The School of Engineering and Applied Science offers undergraduate programs in the professional branches of engineering and in the applied sciences.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses is taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering and Applied Science. This program leads only to the degree of Bachelor of Science.

Students interested in engineering or applied science should offer at entrance to Barnard mathematics through trigonometry, physics, and if possible, chemistry, in addition to the general admission requirements. For details the Office of Admissions of the School of Engineering and Applied Science should be consulted.

Further information about the engineering program and the advanced degrees may be obtained from the announcement of the School.

INTERNATIONAL AFFAIRS AND REGIONAL INSTITUTES

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international affairs. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one area of the world. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are a superior undergraduate record and a Bachelor's degree from an approved institution. Students in the School of International Affairs as well as in other graduate departments of the University may elect to take an area concentration in one of the several area institutes: East Asian Institute, Near and

PROFESSIONAL SCHOOLS

Middle East Institute, the Institute on East Central Europe, Russian Institute, European Institute, the Institute of African Studies, and the Institute of Latin American Studies.

Further information may be obtained from the Office of University Admissions.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics, and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. Although there is no required prelaw curriculum, students are advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both.

Admission is on a competitive basis. All applicants are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey 08540.

Barnard College does not grant "professional option" to candidates for admission to the School of Law.

LIBRARY SERVICE

The School of Library Service offers a year of graduate study leading to a Master of Science degree. Basic professional training is provided for work in college and university, school, public, and special libraries. Individuals with the requisite backgrounds and interest may be admitted to "special programs" in such fields as music, law, medicine, business and economics, science, art, and theology.

Candidates for admission should have a Bachelor's degree in liberal arts. An aptitude test and two years' study of a modern foreign language on the college level are among the requirements for admission.

Advanced study leading to the Doctor of Library Science degree is also offered.

BARNARD COLLEGE

Additional information about careers in library science, the School's program, and admission requirements may be obtained from the School of Library Service, 516 Butler Library.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must include the requirements as follows: at least one academic year of English, physics, biology, general chemistry, and organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

NURSING

Columbia University offers a course in professional nursing leading to the degree of Bachelor of Science. The program is conducted on the Medical Center campus. The minimum requirement for admission is two years (60 points) of college work. The program covers two academic years and two summer sessions. A special program is offered for students who hold a Bachelor's degree. This program is two academic years and one summer session in length. Preparatory work should comprise courses in chemistry, biology, psychology, and sociology. Acceptance of a candidate is based on grounds of character and health as well as fulfillment of the academic requirements.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in occupational therapy leading to a Bachelor of Science degree. Two years (60 points) of acceptable college work are required for admission, including a minimum of six points in biology, three points in English composition, six points in psychology, and three points in sociology. The course of study is of 25 months' duration including two academic years and nine months of clinical experience.

A graduate program of 17 months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of six points in biology and 12 points divided between psychology and sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a certificate.

PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in physical therapy which leads to the Bachelor of Science degree. The candidate for admission must present two years (60 points) of acceptable college work, including eight points in biological science, eight points in physics, six points in English, and six points in psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include six points each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, who have completed the following points in science: eight points in biological science, eight points in physics, nine points in English, and ten points in social science (of which six must be in psychology). The Faculty of Medicine awards a certificate upon satisfactory completion of this course.

Information and guidance regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N. Y. 10032.

PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the School of Public Health and Administrative Medicine leading to the Master of Science degree in Administrative Medicine, Biostatistics, Hospital Administration, Nutrition, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the School. An administrative residency of one calendar year's duration is required of all hospital administration students. A calendar year of administrative residency, or an equivalent experience, is required of all candidates for the degree in administrative medicine.

SCHOOL OF THE ARTS

The School of the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a course of study leading to the degree of Master of Fine

BARNARD COLLEGE

Arts (in painting, sculpture, film, radio, and television a minimum of three semesters, and in theatre a minimum of two years).

A bulletin describing these courses is available at the Office of the School of the Arts, 411 Low Library.

SOCIAL WORK

The Columbia University School of Social Work offers a two-year course of study leading to the degree of Master of Science. An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of background and methods courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work. A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points of liberal arts studies, 20 of which must be in the social and biological sciences, with the emphasis in the direction of the social sciences.

Admission is on a selective basis. The announcement, giving information about the curriculum and dates for making application, may be obtained from the Director of Admissions, 2 East 91st Street, New York, N. Y. 10028.

TEACHERS COLLEGE

Teachers College, Columbia University, offers liberal arts college graduates a one-year program leading to the Master's degree and certification for teaching in the elementary and secondary schools. This program includes practice teaching and graduate courses in the student's major area. In addition, one-year Master of Arts programs are offered in guidance and student personnel administration, special education, psychology, and educational administration. Teachers College also offers programs of study leading to degrees of Master of Science, Master of Arts, Master of Education, Doctor of Education, and, jointly with the Graduate Faculties, the Doctor of Philosophy.

Newly inaugurated in 1965 is a joint program with the Columbia University School of International Affairs leading successively to the degrees of Master of Arts, Master of International Affairs, and Doctor of Education. This program is intended to meet the urgent need for persons especially trained to perform overseas educational service.

For guidance on planning programs for teacher preparation, see Director of the Barnard Education Program, or the Director of Admissions, 110 Main Hall, Teachers College.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

A Bachelor's degree is required for admission. Those applicants are selected who in the light of expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

Further information may be obtained from the Office of the Registrar, 3041 Broadway, New York, N. Y. 10027.

IX. Fees

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

SUMMARY OF FEES

I.	Full-time nonresident and commuter students	Each Term	Academic Year
	Tuition and fees ¹	\$ 900.00	\$1,800.00
II.	Full-time resident students		
	Tuition and fees ¹	\$ 900.00	\$1,800.00
	Residence fees ²	550.00	1,100.00
	Total	\$1,450.00	\$2,900.00

III. Other students

All students taking less than a full schedule (that is, less than 12 points) are required to pay the registration (\$10), health service (\$15), Undergraduate Association activity (\$10) fees each term, as well as \$65 per point for all academic work and \$5 for physical education, if this is required. Students taking two (2) courses or less in a semester are exempt from the activity fee.

Students registering *in absentia* for one term or for one year are required to pay a registration fee of \$15.

IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or

¹ Includes registration, health service, and Undergraduate Association activity fees.
² Residents of Brooks, Hewitt, and Helen Reid Halls, \$550 each term, including room, board, and laundry.
Residents of 616 West 116th Street, \$300 each term, including room and laundry. Board available on campus at \$250 per term.
Residents of the Fairholm, room charge for semester (from \$120 to \$280). Board available on campus at \$250 per term.

before May 15. Applicants for admission will be billed for the deposit at the time they signify their acceptance of admission to the College. One-half of this deposit (\$50) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than August 1 for the Autumn Term or December 1 for the Spring Term.

Resident students and nonresidents in the Fairholm: A room deposit of \$50 is payable by May 15 to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than August 1 for the Autumn Term or December 1 for the Spring Term.

Deposits for the use of apparatus and material required in:

Chemistry 41, 42, 51, 58, 63, 87, 88, each course . . . \$20.00

V. Payment of Charges and Fees

All charges and fees are payable semiannually, in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by copy of the bill) must be made by September 1 for the Autumn Term and by January 16 for the Spring Term. If payments are mailed, envelopes must be postmarked not later than September 1 or January 16 respectively. Students admitted for the Autumn Term after September 1 must pay their bills before the first day of registration. A late payment fee of \$15 will be charged on all payments made or postmarked after midnight on the above dates.

Rooms will not be held for students whose total bills are not paid by September 1.

All charges and fees are subject to change at any time at the discretion of the Trustees.

The privileges of the College, including examinations, are not available to any student who is delinquent in the payment of charges or fees. When bills are not paid by their due date or satisfactory arrangements for their payment not made with the Bursar, the student will be required to withdraw from the Col-

lege. Financial obligations include not only tuition, fees, and residence charges (if any) but fines due the libraries and other charges which may be incurred.

Checks or money orders in payment of all charges and fees must be in U. S. funds (at a U. S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded.)

NOTE: Holders of a New York State Regents Scholarship and/or Scholar Incentive Award may deduct the amount shown on their Award Certificate provided the certificate is enclosed with the bill.

VI. Deferred Payment

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar for deferred payments. Such requests must be made prior to August 15 for the Autumn Term or January 10 for the Spring Term.

Where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional fee of \$10 for late payment will be incurred. In case of withdrawal, the entire bill for charges and fees will become due immediately.

VII. Adjustment of Fees and Refunds

For withdrawal: If a student withdraws from the College after August 1 for the Autumn Term and December 1 for the Spring Term, the following amount of tuition and residence fees paid will always be retained:

Tuition and fees	\$50.00
Residence fees	25.00

Up to and including the first Friday of the term (see the Academic Calendar), the remaining tuition, \$850, which the student has paid will be refunded in full. After the first Friday of the term, twenty per cent of the remaining tuition, \$170, will be retained by the College for each additional week, or part of a week, of the semester up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Up to and including the first Friday of the term (see the Academic Calendar), the remaining residence fees, \$525, that the

student has paid will be refunded in full. After the first Friday of the term, ten per cent of the remaining residence fees, \$52.50, will be retained by the College for each week, or part of a week, up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

A resident student who moves from the residence halls while still a student in the College will forfeit all residence fee payments.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted from any withdrawal credit that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program was made by October 7 in the Autumn Term and by February 17 in the Spring Term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is nondenominational and no provision can be made for special diets.

VIII. Additional Charges

Orientation fee: Required of all students entering Barnard College for the first time in September	\$10.00
Art studio fee: Required for materials and supplies used in art laboratory work per term	5.00
Tuition for courses in applied music: See departmental announcement of courses, page 123.	
Tuition for technical courses in art history: See Announcement of the School of the Arts for special fees.	
Deferred and special examinations, payable in each case before the examination is held:	
For each deferred examination	5.00
For each special examination	10.00
(A special or deferred examination is one taken at any time other than the conclusion of a course.)	
Late registration for academic work (see page 37)	15.00

Late filing of:

Tentative program cards	10.00
Major blanks	10.00
Application for deferred examinations	5.00
Application for language placement test	5.00

IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include: a gymnasium costume, approximately \$22; Residence Halls Student Association dues of \$2 for residents of Brooks, Hewitt, Helen Reid Hall, and 616 West 116th Street; and a minimum of \$75 per year for textbooks. Nonresident and commuter students should estimate a minimum of \$100 (\$3 weekly) for lunches, if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include: minimum allowances for transportation for nonresident and commuter students, or two round-trip coach fares from home to college for resident students; clothes (\$150); incidentals (\$150-\$200).

X. Student Health Service

Campus medical service is available to all Barnard students and is covered by the Health Service fee included in the comprehensive charge payable each term. This service is not available during college vacations. Medical examinations are required of all freshmen and seniors. (Students are not permitted to register for the succeeding term until the required examination is complete.) The final date for completion of the examination by the College Physician is December 15 for seniors; May 15 for freshmen.

Students are entitled to the following services:

Barnard College Medical Office
Advice, treatment, and examination by the Barnard College physicians or nurses.

Columbia Health Service or St. Luke's Hospital, *upon referral by the Barnard College Physician.*

- a. One consultation without charge with any specialist.
- b. Surgical treatment of minor surgical condition.
- c. Laboratory or X-ray studies as indicated.
- d. Ten days a term free care in the Columbia University Infirmary.

- e. Four days of ward care at St. Luke's Hospital for severe acute surgical and medical conditions requiring hospitalization. In practically all situations when additional bed care is needed, it can be spent in convalescence in the Columbia University Infirmary.

The following services are not provided:

Dental care, eye examination and the fitting and provision of glasses; house calls or room visits; ambulance service; free care for chronic conditions or conditions predating original college matriculation.

XI. Insurance for Foreign Students

Foreign students who are not residing in the United States with members of their families are required to participate in the Accident and Sickness Insurance Plan. The Accident and Sickness Insurance Plan fee of \$42 a calendar year is payable to the Insurance Company of North America. Full information concerning this policy will be mailed to the student with her college bill.

XII. Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of \$78.24. See the Bursar's Office for complete details.

XIII. Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U. S. Post Office will cash upon presentation of the Bursar's receipt. A Bursar's receipt is issued when a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank New York Trust Company
Broadway and 113th Street, New York, N. Y. 10025

First National City Bank of New York
Broadway and 111th Street, New York, N. Y. 10025

American-Irving Savings Bank
Broadway and 111th Street, New York, N. Y. 10025

X. Financial Aid

In so far as possible, the College helps qualified students who have financial need. Since the College fees do not cover the entire cost of her education today, every student at Barnard in effect receives some financial aid from past donors. The balance is made up by endowment income and gifts. In addition to grants and loans, opportunities for part-time employment are provided to open Barnard's doors to girls of superior talent from all sections of the country. (See Placement Office, page 47. Students are urged to investigate federal and state aid programs and college tuition financing plans offered by local banks and insurance companies.

ANNUAL AWARDS

Loans or combination grant-and-loan awards are made by the Committee on Financial Aid to full-time students of high scholarly ability, excellent character, and promise of future accomplishment. *The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.* The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the College Scholarship Service forms.
2. The amount available from other sources, such as the New York State Regents Scholarships and New York State Scholar Incentive Awards.
3. The student's savings distributed over a four-year period.
4. The student's summer earnings (at least \$200 for freshmen and \$300 for sophomores, juniors, and seniors).
5. After the freshman year, the student's earnings from part-time work during the academic year (\$200).

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 170.

Awards are for one year only. Students in good standing are eligible to apply for further assistance in subsequent years.

Applications for financial aid for entering students may be obtained from the Admissions Office and should be returned to that office on or before January 15. The student applies in terms of financial need, not for any one of the specific scholarships listed in the following pages.

Entering students who are applying for aid must also file a financial statement with the College Scholarship Service, Box 176, Princeton,

New Jersey 08540, or Box 1025, Berkeley, California 94701, not later than February 15 of the senior year in high school. Forms may be obtained from the school or they will be sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Applicants are notified of awards at the time they receive their notice of admission to the college.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Byrn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a noncompetitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

STUDENTS IN COLLEGE: Students in college who are in need of financial aid and are academically qualified must file applications on special forms obtainable in the Office of the Dean of Studies. Applications must be filed on or before February 1, 1967.

Applicants will be notified as soon as awards are made. Recipients are requested to inform the Office of Financial Aid immediately, in writing, of their plans with respect to the funds assigned to them.

NEW YORK STATE SCHOLAR INCENTIVE AWARDS

Any student who has been a legal resident of New York State for the preceding year is entitled to a Scholar Incentive Award (\$50 to \$250) for each term in which she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State Income Tax Return for the previous year. Application for awards must be made annually and should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the Spring Term only have an April 1 deadline. Further information and application forms may be obtained from the Department of Education, Regents Examination and Scholarship Center, Albany, New York 12201.

NEW YORK REGENTS COLLEGE SCHOLARSHIPS

The Regents of the University of the State of New York award, each year, scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on the Regents Scholarship Examination and are open to students in any approved college or university in the state. Awards range between \$125 to

BARNARD COLLEGE

\$500 a term, depending upon need. A first-year student who is interested in applying should see her high school principal or guidance counselor for further details. New York Regents Scholarships are not automatically renewed; they must be reapplied for annually.

LOAN FUNDS

Barnard College Loans

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld '08.

These funds are administered by the Faculty Committee on Financial Aid. Loans are regularly assigned to upperclassmen as part of their financial aid award; the maximum loan per year is \$500. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness totalling \$300 or more is repaid in semiannual installments of \$150 each. Interest is charged from the first day of the month after graduation at the rate of three per cent per annum.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Chairman of the Committee on Financial Aid to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

State Loans

Legal residents of the State of New York who are degree candidates are eligible to apply for loans guaranteed by the New York Higher Education Assistance Corporation. No interest is charged as long as the student is registered for at least six (6) points of course work toward the degree at Barnard College, but three (3) per cent interest and repayment of principal must begin when a student ceases to be so registered. Repayment may be spread over a six-year period. Further information and application forms may be obtained from the Office of Financial Aid. Completed applications should be returned to the Office of Financial Aid.

Other states, notably Massachusetts, New Jersey, and Pennsylvania, also have loan plans. Students should inquire at their local commercial banks regarding such plans.

National Defense Student Loan Program

Federal loan funds are available to students under the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958) to students "with a superior academic background." Special consideration is given to those students who intend to teach in college or in public or private elementary or secondary schools. The Office of Financial Aid can supply further information.

BARNARD COLLEGE SCHOLARSHIP FUNDS

A list of scholarship funds established by gifts, endowment, or in trust follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

UNRESTRICTED¹

NIELS J. ALLISON FUND (1964). From the estate of Beatrice C. Allison '12. \$55,229.

ALUMNAE SCHOLARSHIP FUND (1922). A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. Approximately \$15,742.

ANNA E. BARNARD SCHOLARSHIP FUND (1899). In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

FRANCES E. BELCHER SCHOLARSHIP FUND (1963). By bequest of Miss Frances E. Belcher. \$42,256.80.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND (1950). In honor of Ruth Marshall Billikopf '19. \$5,000.

VARIAN WHITE BLUMBERG SCHOLARSHIP FUND (1952). From the estate of Varian White Blumberg '13. \$5,000.

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND (1913). By bequest of Annie P. Burgess. \$10,000.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND (1932). In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

BREARLEY SCHOOL SCHOLARSHIP FUND (1889). By pupils and former pupils of the Brearley School. \$3,000.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND (1915). In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

ARTHUR BROOKS FUND (1897). By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

THOMAS F. CLARK STUDENTS' LOAN FUND (1928). By bequest of Mrs. Fanny Foster Clark. \$100,000.

¹ Figures compiled as of January 1, 1966.

BARNARD COLLEGE

JENNIE B. CLARKSON SCHOLARSHIP FUND (1898). By Mrs. W. R. Clarkson. \$3,000.
CLASS OF 1921 SCHOLARSHIP FUND (1931). A tenth reunion gift by the Class of 1921. \$2,500.

CLASS OF 1954 SCHOLARSHIP FUND (1955). Gifts of the Class of 1954 through their fifth reunion in 1959. \$4,584.

VERA B. DAVID SCHOLARSHIPS (1962). Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

ADA M. DONELLE SCHOLARSHIP FUND (1948). By bequest of Mrs. Ada M. Donelle. \$121,751.

FISKE SCHOLARSHIP FUND (1895). By Mrs. Martha T. Fiske-Collord. \$5,000.

GALWAY FUND (1912). By an anonymous donor. \$2,400.

IRMA ALEXANDER GOLDFRANK FUND (1919). In memory of Irma Alexander Goldfrank '08, by her friends. \$2,105.

GRAHAM SCHOOL SCHOLARSHIP FUND (1907). By the Graham Alumnae Association. \$7,300.

LOUISE H. GREGORY SCHOLARSHIP FUND (1955). From gifts in memory of Louise H. Gregory. \$4,497.

HARKNESS SCHOLARSHIP FUND (1939). With a gift from Edward S. Harkness. \$100,000.

CHARLES EVANS HUGHES SCHOLARSHIP FUND (1952). By bequest of Charles Evans Hughes. \$14,300.

LILY MURRAY JONES SCHOLARSHIP FUND (1950). In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

MARJORIE LAWRENCE KAUFMAN SCHOLARSHIP FUND (1965). By the Trustees out of funds left to the College by the life income contract of Marjorie Lawrence Kaufman '19. \$24,290.

AUGUSTA LARNED SCHOLARSHIP FUND (1924). By bequest of Augusta Larned. \$10,000.

HARRIETT MOONEY LEVY SCHOLARSHIP FUND (1965). By bequest of Harriett Mooney Levy. \$40,000.

JOAN SPERLING LEWINSON SCHOLARSHIP FUND (1955). With a gift from Joan Sperling Lewinson '13. \$29,464.

JUDITH LEWITTES SCHOLARSHIP FUND (1957). In memory of Judith Lewittes '55, by her family and friends. \$5,314.

ANNE ELIZABETH LINCOLN SCHOLARSHIP FUND (1963). From the estate of Anne Elizabeth Lincoln '24. \$8,441.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate Awards, page 186.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND (1947). From the estate of Grace Farrant Luby '93. \$5,000.

CECILE LEHMAN MAYER SCHOLARSHIP FUND (1962). With a gift from Mr. and Mrs. Paul Mazur, the income to be awarded annually for financial aid to a maximum of four or fewer students. \$25,000.

FINANCIAL AID

MEMORIAL SCHOLARSHIP FUND (1954). To receive contributions in memory of deceased alumnae and friends. \$25,870.

WILLIAM MOIR SCHOLARSHIP FUND (1912). In memory of William Moir by his wife. \$10,000.

CAROLINE CHURCH MURRAY FUND (1918). In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND (1947). From the estate of Frederick Nathan. \$3,000.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND (1940). In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

M. GLADYS QUINBY SCHOLARSHIP FUND (1961). By bequest of M. Gladys Quinby '08 and gifts of friends. \$4,887.

PETER C. RITCHIE, JR. SCHOLARSHIP FUND (1937). By bequest of Virginia J. Ritchie. \$4,400.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND (1950). In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,300.

EDNA HELLER SACHS SCHOLARSHIP FUND (1955). With a gift from Edna Heller Sachs '10. \$11,250.

ELEANORA BUTLER SANDERS SCHOLARSHIP FUND (1922). By bequest of Henry M. Sanders. \$10,000.

ANNA M. SANDHAM SCHOLARSHIP FUND (1922). By bequest of Anna M. Sandham to Columbia University. \$10,000.

SCHMITT-KANEFENT SCHOLARSHIP FUND (1931). By bequest of Catherine Schmitt. \$7,100.

SCHOLARSHIP FUND (1901). By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$12,000.

KATHERINE FLINT SHADEK SCHOLARSHIP FUND (1961). By Katherine Flint Shadek '44. \$10,920.

EMILY JAMES SMITH SCHOLARSHIP FUND (1899). In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

GEORGE W. SMITH SCHOLARSHIP FUND (1906). In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

EDNA PHILLIPS STERN SCHOLARSHIP FUND (1952). In memory of Edna Phillips Stern '09, by her family and friends. \$20,797.

ISABEL GREENBAUM STONE SCHOLARSHIP FUND (1957). In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$12,465.

SOLON E. SUMMERFIELD FOUNDATION SCHOLARSHIP FUND (1960). A gift from the Solon E. Summerfield Foundation. \$6,000.

VELTIN SCHOOL SCHOLARSHIP FUND (1905). By the alumnae of Mlle. Veltin's School. \$3,000.

BARNARD COLLEGE

ALMA F. WALLACH SCHOLARSHIP FUND (1951). In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

ELLA WEED SCHOLARSHIP FUND (1895). In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,600.

HYMEN AND HELEN WERNER SCHOLARSHIP FUND (1964). In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hymen and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$5,168.

SCHOLARSHIP FUNDS

RESTRICTED¹

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND (1916). By Mrs. James Herman Aldrich to assist in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

BERTHA R. BADANES SCHOLARSHIP FUND (1966). By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$5,000.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND (1952). For a Barnard student whose home is outside the area of the City of New York. Approximately \$25,000.

BARNARD-IN-WESTCHESTER ENDOWMENT FUND (1962). By the Barnard College Club of Westchester County. For scholarships, preferably for students from Westchester County. \$7,450.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND (1916). By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND (1936). In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,634.

IRVING BERLIN SCHOLARSHIP FUND (1950). By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

IDA BLAIR MEMORIAL FUND (1937). In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND (1930). In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

WILLIAM TENNEY BREWSTER AND ANNA RICHARDS BREWSTER FUND (1961). By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000, with priority to daughters of professional people educated in independent schools. \$166,600.

¹ Figures compiled as of January 1, 1966.

FINANCIAL AID

BROOKLYN SCHOLARSHIPS (1895). By the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school. Twelve at \$150 each.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND (1939). In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

CARPENTIER RESIDENCE SCHOLARSHIP FUND (1919). By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND (1901). By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

MRS. HENRY CLARKE COE SCHOLARSHIP FUND (1910). By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

CLASS OF 1919 DECENNIAL FUND (1929). A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

AUGUSTA SALIK DUBLIN SCHOLARSHIP FUND (1960). In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,100.

EDUCATIONAL AND CULTURAL TRUST FUND OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS (1951). By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

ENGLISH SCHOLARSHIP FUND (1920). By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

GLADYS RENSHAW ESTERBROOK SCHOLARSHIP FUND (1958). In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

MARTHA T. FISKE SCHOLARSHIP FUND (1911). In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

FOOD FAIR SCHOLARSHIP (1954). By the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

BARNARD COLLEGE

HELEN JENKINS GEER SCHOLARSHIP FUND (1940). In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND (1937). In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

EMMA HERTZOG SCHOLARSHIP FUND (1904). With gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

MARION ALICE HOEY FUND (1944). In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

LILLIA BABBITT HYDE SCHOLARSHIP FUND (1953). By the Lillia Babbitt Hyde Foundation. Awarded to premedical students. \$25,000.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND (1928). In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers. \$5,000.

MARY E. LARKIN JOLINE SCHOLARSHIP FUND (1927). By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

WERNER JOSTEN SCHOLARSHIP FUND (1955). With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,900.

JESSIE KAUFMANN SCHOLARSHIP FUND (1902). In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

KIMBALL FELLOWSHIP FUND (1938). By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,800.

ELEANOR KINNICUTT SCHOLARSHIP FUND (1911). In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND (1953). In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the Department be awarded to a student who is majoring in Spanish. \$15,377.

EUGENE F. AND MINNIE GOUGER MC GOWAN SCHOLARSHIP FUND (1955). By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

FINANCIAL AID

FANNIE MOULTON MC LANE SCHOLARSHIP FUND (1961). By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of colonial or revolutionary ancestry, or the descendants of a civil war soldier. \$7,500.

MRS. DONALD MC LEAN SCHOLARSHIP FUND (1906). By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

FERRY STARR MORGAN SCHOLARSHIP FUND (1959). In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

MARY BARSTOW POPE SCHOLARSHIP FUND (1913). In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

PUBLIC SERVICE SCHOLARSHIP FUND (1934). By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

LUCILLE PULITZER SCHOLARSHIP FUND (1899). In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,450.

AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND (1955). In honor of Amelia de del Río, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Río's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the Department, be awarded to a student who is majoring in Spanish. \$21,333.

JOAN ROSOF SCHOLARSHIP FUND (1964). By Mr. Murray Rosof in honor of his daughter, Joan Rosof '61. Awarded to qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,215.

FELIX ST. GEORGE SCHOLARSHIP (1955). In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,450.

BARNARD COLLEGE

DOROTHY K. SCHEIDELL SCHOLARSHIP FUND (1965). In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates, and friends. Awarded to a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,030.

FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND (1955). In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

EMMA A. TILLOTSON SCHOLARSHIP FUND (1910). By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CLARA BUTTENWIESER UNGER MEMORIAL FUND (1938). In memory of his daughter, Clara Buttenwieser Unger '13, by Joseph L. Buttenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND (1934). In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

GERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND (1953). By Charles Webb. Awarded to a student nominated by the Department of History. \$5,000.

ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND (1940). By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP (1944). A tuition scholarship, with variable stipend. Awarded annually, with preference given to a student from Brooklyn.

THE BARNARD COLLEGE CLUB OF DETROIT SCHOLARSHIP (1958). A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

FAIRFIELD COUNTY SCHOLARSHIP (1962). Awarded preferably to entering freshmen from Fairfield County for one year only.

ARLENE HERSHEY MEMORIAL SCHOLARSHIP (1964). A scholarship with variable stipend awarded annually to a senior in the Education Program.

HOLLAND DAMES SCHOLARSHIP (1915). In honor of Fanny I. Helmuth, by the Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

THRIFT SHOP SCHOLARSHIPS (1938). Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N. Y. 10022.

XI. Honors

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study. The income from these funds is awarded each year, unless otherwise stated.

GRADUATE FELLOWSHIPS

DOROTHY ALLEN FELLOWSHIP (1948). Given on recommendation of the Department of Mathematics to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career and the student's plans for her future will be among the factors given consideration in making the selection. A needy student shall receive the entire sum towards tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year. An award of \$800.

ASSOCIATE ALUMNAE OF BARNARD COLLEGE GRADUATE FELLOWSHIP (1963). To be awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$40,000. Applications must be filed in the Alumnae Office by March 1.

GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND (1930). By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

GRACE POTTER RICE FELLOWSHIP FUND (1935). In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. \$24,000.

THE HERBERT MAULE RICHARDS FUND (1933). In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

BARNARD COLLEGE

GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND (1936). By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$18,000.

WILLIAM MASON SCHOLARSHIP (1928). The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

MARGARET MEYER GRADUATE SCHOLARSHIP FUND (1952). In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

GRADUATE PRIZES

FRANK GILBERT BRYSON PRIZE (1931). In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. Awarded by vote of her class to a senior who has given conspicuous evidence of unselfishness, and who in the opinion of the class has made the greatest contribution to Barnard during her college career. Income on \$3,000.

ANNE DAVIDSON PRIZE (1965). In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the Geology and Geography Department to a graduating senior who has demonstrated continuing interest in the study of Conservation, Natural Resources, or an allied field. The holder is to pursue a year's graduate study in one of these fields at Columbia or any other university of approved standing. Income on \$4,075.

DEAN PRIZE IN GERMAN (1925). By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

CLARA L. FROELICH MATHEMATICS PRIZE (1962). By Clara L. Froelich '15. Awarded annually by the Department of Mathematics to a member of the graduating class whose work in mathematics has revealed superior ability in grasping the concepts of the subject and has been distinguished by thoughtful devotion to fundamental ideas rather than to the mere mastering of techniques. \$200.

KOHN MATHEMATICAL PRIZE (1892). By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

UNDERGRADUATE AWARDS¹

The income from prize funds is awarded each year.

ESTELLE M. ALLISON PRIZE FUND (1937). By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. \$1,000.

¹ Figures compiled as of January 1, 1966.

MARY E. ALLISON PRIZE FUND (1937). In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. \$1,000.

THE AMERICAN STATISTICAL ASSOCIATION PRIZE, NEW YORK AREA CHAPTER (1960). Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND (1927). In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. The income is to be awarded by the Department of Biology for work at a biological laboratory offering summer courses. \$1,640.

BORDEN FRESHMAN PRIZE (1962). A prize of \$200 awarded to the freshman who carries a full academic program throughout the year and receives the highest average in her class. In the event of a tie it will be awarded to the student whose program was the heaviest. During the autumn immediately following, the winner will be announced and the prize awarded, regardless of whether or not she returns to Barnard. \$1,000 from the Borden Company Foundation.

EUGENE H. BYRNE HISTORY PRIZE FUND (1960). In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. \$3,604.

HELEN MARIE CARLSON FRENCH PRIZE FUND (1965). In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in third-year French (French 5), the course which Miss Carlson directed for many years, or a similar course at the discretion of the department. \$1,843.50.

THE COLUMBIA UNIVERSITY PRESS PRIZE. A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

HELEN R. DOWNES PRIZE (1964). In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Pre-Medical Committee, shows greatest promise of distinction in medicine or the medical sciences. \$1,750.

THE JENNY A. GERARD MEDAL (1908). The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the student who is most proficient in colonial history.

GERMAN PRIZE FUND (1950). Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$12,000.

KATHARINE REEVE GIRARD PRIZE (1964). In memory of Katharine Reeve Girard '33 by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of the work in her major field. \$930.

BARNARD COLLEGE

HERRMAN BOTANICAL PRIZE FUND (1892). Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. \$1,000.

MEDAL OF THE HISPANIC INSTITUTE IN THE UNITED STATES. Awarded to an undergraduate for the best essay on Cervantes.

FRÉDÉRIC G. HOFFHERR FRENCH PRIZE FUND (1961). In memory of Frédéric G. Hoffherr, Associate Professor of French from 1936 to 1955. The income is awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a ten-minute disquisition. Candidates must have pursued French courses continuously during their Barnard career. \$1,025.

THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING. A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the Chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the Chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

AMY LOVEMAN MEMORIAL FUND (1956). In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,099.

THE LENORE MARSHALL PRIZES FOR WRITING (1960). For excellence in poetry and prose contributed to the undergraduate magazine, *Focus*. Adjudged by the donor, Mrs. Marshall, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$50 each.

SIDNEY MINER POETRY PRIZE FUND (1962). In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry: the judges to be members of the Department of English. \$5,000.

THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND (1949). By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. \$4,236.

THE HELEN PRINCE MEMORIAL PRIZE FUND (1921). In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. \$1,200.

KATHARINE E. PROVOST MEMORIAL PRIZE FUND (1949). In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. \$1,000.

CAROLINE GALLUP REED PRIZE FUND (1916). In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of special study in the subject of the origin of Christianity and early church history. Awarded to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. \$1,000.

MARIE REIMER SCHOLARSHIP FUND (1953). In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year. \$4,980.

BETTINA BUONOCORE SALVO PRIZE FUND (1966). By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. \$5,000.

SYLVIA KOPALD SELEKMAN PRIZE FUND (1960). In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. \$1,000.

SPANISH PRIZE. To be awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in the Spanish language and literature. A prize of \$100, the income on the Spanish Prize Fund of \$2,500.

SPERANZA ITALIAN PRIZE FUND (1911). In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. \$1,000.

JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND (1917). In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. \$1,250.

VON WAHL PRIZE (1915). In memory of Constance von Wahl '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. \$1,300.

The following prizes of Columbia University are by their terms open to students of Barnard College:

THE ACADEMY OF AMERICAN POETS PRIZE. A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the spring term. Manuscripts should be submitted prior to April 1. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject

of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the spring term. For additional information consult Professor Joseph A. Rothschild.

THE BUNNER MEDAL. The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult Professor Carl Hovde.

EARLE PRIZE IN CLASSICS. A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

THE CAROLINE PHELPS STOKES PRIZE. The Caroline Phelps Stokes Prize of about \$45 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult Professor Joseph A. Rothschild.

VAN RENSSELAER PRIZE. To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

WOODBERRY PRIZE. Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1966-67. Value of prize about \$100. For additional details consult the Chairman of the Department of English and Comparative Literature.

The following prize is also open to Barnard Students:

SUSAN HUNTINGTON VERNON PRIZE. A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.

XII. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of over fourteen thousand members from all states of the Union and more than sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors, and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard alumnae living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

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XIII. Statistics†

	1889 to 1890	1899 to 1900	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1954 to 1955	1960 to 1961	1962 to 1963	1963 to 1964	1964 to 1965	1965 to 1966
UNDERGRADUATES, REGULAR:																	
Seniors .....	....	40	62	*123	87	*126	227	*181	*164	*208	*260	245	*311	*360	*390	*355	*375
Juniors .....	....	40	122	110	190	259	237	220	191	314	277	340	381	428	381	414	394
Sophomores .....	....	37	109	191	193	234	247	226	210	314	272	317	387	387	405	391	447
Freshmen	14	54	188	240	224	271	311	267	246	324	271	304	364	350	349	415	454
Unclassified students .....	....	....	....	....	....	57	54	103	143	56	17	1	13	12	15	8	14
	14	171	481	664	694	947	1076	997	954	1216	1097	1207	1456	1537	1540	1583	1684
SPECIAL STUDENTS:																	
Matriculated .....	....	21	24	32	39	....	....	....	....	....	....	....	....	....	....	....	....
Nonmatriculated .....	....	....	30	32	22	33	28	29	31	21	15	20	24	18	25	19	11
Departmental (1889-1896)	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Music students .....	....	41	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....
(1896-1904, 1914-1915)	22	62	54	69	61	33	28	29	31	21	15	20	24	18	25	19	11
GRADUATE STUDENTS (1890-1900) ..	....	82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
TOTAL REGISTRATION	36	315	535	733	755	980	1104	1026	985	1237	1112	1227	1480	1555	1565	1602	1695
DEGREES CONFERRED:																	
A.B. ....	....	39	88	141	139	198	247	221	206	270	303	258	312	383	403	367	....
B.S. (1909-1918) .....	....	18	2	8	5	....	....	....	....	....	....	....	....	....	....	....	....
A.M. (1898-1900) .....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TOTAL BACHELOR'S DEGREES CONFERRED 1893-1965: A.B., 14,041, B.S., 77.

† These figures represent registration in the Autumn Term plus students admitted in the Spring Term.

* The figures for seniors include students counting the first year in a professional school in place of the fourth year at Barnard as follows:

1913-15 21 in Education

1916-61 4 in Architecture

2 in Business

10 in Journalism

18 in Law

21 in Medicine

1961-64

2 in Engineering

2 in Medicine

3 in Law

2 in Medicine

1964-65

2 in Medicine

XIV. Examination Groups

Courses are arranged in examination groups to avoid conflicts on the examination schedule. Groups are indicated by Arabic boldface numerals in brackets following the course title. Group **0** includes courses which ordinarily do not have final examinations. No student may elect two courses in the same examination group (except Group **0**), *unless she files in the Registrar's office with her official program a written statement from one or the other instructor that she will be given a special examination.*

Group [1] M W F 9

Biology 1–2; 1a–2a
Biology 5; 6
Chemistry 2; 2a
Economics 17, 18
English 41, 42 (I)
English G6803x–6804y
English 90
Philosophy 1x, 1y (I)
Religion 14

Group [2] M W F 10

Art History 81
Biology 7
Chemistry 51; 54
Economics 1–2 (I)
Economics 27; 28
English 66; 67
English 70
English 81; 82
French 25–26
Geology 1; 2
Government 1, 2
Government 9
Greek 11; 12
History 17, 18
History 23, 24
History 31, 32
History 41, 42
Mathematics 7, 8
Music 1–2 (I)
Philosophy 1x, 1y (II)
Philosophy 61, 62
Psychology 9
Psychology 12; 12a
Psychology 25
Sociology 1–2 (I)
Sociology 32; 45
Spanish 17; 18

Group [3] M W F 11

Anthropology 1, 2
Art History 91, 92
Chemistry 41; 42
Economics 1–2 (II)
English 41, 42 (II)
English 63, 64
French 37; 40
Government 10; 19
Government 23–24
History 9–10
Latin 1–2
Latin 3; 4
Mathematics 15, 16
Music 1–2 (II)
Philosophy 1x, 1y (III)
Philosophy 43, 44
Psychology 27; 27a
Psychology 30; 30a
Sociology 1–2 (II)
Spanish 5–6
Spanish 15–16
Spanish 21–22

Group [4] M W F 1:10

Art History 43, 44
Biology 8; 16
Economics 1–2 (III); 7–8
English 41, 42 (III)
English 68
French 22x; 35
Government 11, 12
Philosophy 5; 84
Psychology 17; 17a
Psychology 20; 21
Russian 5, 6
Sociology 33; 34
Spanish 20; 23

BARNARD COLLEGE

Group [5] M W F 2:10

Anthropology 24
Art History 1–2
Art History 51, 52
Biology 10
Economics 1-2 (IV)
Economics 25, 26
English 69; 77y
Geology 19
German 45, 46
Government 17
Government 28; 29
Greek 1–2
History 33, 34
History 39, 40
History 43
Philosophy 25
Philosophy 75; 76
Philosophy 85
Sociology 1–2 (III)
Sociology 39; 40

Group [6] Tu Th 9

Botany 1–2; 1a–2a
Tu Th 9:10–10:25
Art History 61; 70
Chemistry 1; 1a
Chemistry 8
English 58; 75
French 33; 38
German 36
Government 15; 25
Mathematics 31; 40
Philosophy 7; 22
Psychology 16; 38
Sociology 1–2 (V)
Spanish 13, 14

Group [7] Tu Th 10:35–11:50

Biology 9
Chemistry 52; 85
English 55; 56
French 34
Geography 3, 4
Government 7, 8
Government 31, 32
Philosophy 1x, 1y (IV)
Philosophy 41
Physics 3–4
Spanish 29

Group [8] Tu Th 11

Art History 75, 76
Biology 14

Economics 29; 30
English 73, 74
French 21y
History 11, 12
Psychology 5; 5a
Psychology 8; 8a
Psychology 57; 68
Religion 15, 16
Sociology 21; 22
Spanish 31–32

Group [9] Tu Th 2:10

Art History 65; 66
Tu Th 2:10–3:25
Anthropology 25; 28
Economics 15; 24
English 42 (IV)
English 79; 80
English 85; 86
German 27, 28
German 56
Government 16; 21
History 7–8
History 37–38
Philosophy 4
Religion 25, 26
Religion 31
Sociology 41, 42
Spanish 25, 26

Group [10] M W F 3:10

Art History 77; 78
Sociology 1–2 (IV)
Sociology 43, 44

Group [11]

Psychology 1x or 1y (Sections)

Group [12] M W F 12:10

Art History 97
English 71y; 88

Group [13] Tu Th 3:10

Art History 63
Cl. Civilization 32
Education 3–4
Mathematics 35, 36
Recreational Leadership 1

Group [14]

French 1–2 (Sections)
French 3, 4; 4x (Sections)
French 5, 6; 5y, 6x (Sections)
French 21–22

EXAMINATION GROUPS

Group [15]

German 1–2 (Sections)
German 3, 4 (Sections)
German 5, 6 (Sections)
German 11, 12
Russian 1–2 (Sections)
Russian 3–4 (Sections)

Group [16]

History 1–2 (Sections)

Group [17]

Spanish 1–2 (Sections)
Spanish 3, 4 (Sections)
Spanish 7, 8 (Sections)
Spanish 39, 40

Group [0]

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Studies 1–2
American Studies 3–4
Anthropology 41–42
Anthropology 51–52
Art History 98
Biology 61, 62
Biology 71
British Civilization 85–86
Chemistry 57; 58
Chemistry 63
Chemistry 87, 88
Economics 51–52
Economics 61, 62
English A1–A2 (Sections)
English 2
English 3, 4
English 5, 6
English 7, 8
English 11, 12
English 13, 14
English 19x (19y)
English 21; 21y
English 23, 24
English 27, 28
English 33, 34
English 35, 36
English 93 (93y)
English 95, 96
English 97, 98
French 8

French 9, 10
French 11
French 13y; 14x
French 17–18
French 51; 52
French 53; 54
French 59–60
Geography 59, 60
Geology 60
German 7, 8
German 9, 10
German 61, 62
Government 45, 46
Government 61–62
History 61, 62
History 71–72
History 81–82
History 83, 84
Philosophy 63, 64
Philosophy 65–66
Psychology 45x; 45y
Psychology 48x; 48 y
Religion 35, 36
Russian 9, 10
Sociology 38
Sociology 87, 88
Sociology 97
Spanish 9, 10
Spanish 11, 12
Spanish 35

INDEX

- Administration, Officers of, 19
- Admission, general statement, 27:
 - freshman class, 27; early decision plan, 28; advanced placement, 30; advanced standing, 30; foreign students, 31; special students, 32; re-admission, 32
- Advice to students, *see* Class Advisers
- African Studies, Institute of, 161
- Alumnae, Associate, 189-195
- American Studies, 52
- Anthropology, courses, 56
- Architecture, School of, 158
- Art History, courses, 59
- Arts, School of the, 163
- Assemblies, College, 42
- Attendance, regulations regarding, 37
- Audited courses, 39

- Bequest form, 202
- Biology, 64
- British Civilization, 53
- Business, Graduate School of, 159

- Calendar, College, 4
- Campus, 24
- Chemistry, courses, 67
- Class Advisers, 19, 37
- Classics in Translation, 102
- Classification of students, 39
- College Entrance Examination Board, 29
- Columbia College, courses, 40
- Columbia University: relation of Barnard College to, 22; courses in, 40; map of, inside back cover
- Contemporary society requirement, 33
- Correspondence, opposite Table of Contents
- Courses of Instruction: departmental statements, alphabetically arranged, 49 — 157
- Curriculum, general statement, 23; *also see* Degree requirements

- Dean's List, 42
- Deferred examinations, *see* Examinations in course
- Degree: academic requirements, 33; requirements for transfer students, 35; granting of, 42; with honors, 42
- Dental Hygiene, 159
- Dental and Oral Surgery, School of, 159
- Discharge, honorable, 38
- Discipline, academic, 37

- Dormitory, *see* Residence halls
- Drama, courses, 70, 80

- Early decision plan, 28
- East Asian Institute, 160
- East Central Europe, Institute on, 161
- Economics, courses, 72
- Education, courses, 75
- Engineering and Applied Science, School of, 160
- English, requirement, 33; courses, 76
- European Institute, 161
- Examination groups, 49; list of, 197
- Examinations in course, 41; deferred, 41; College Entrance, 29

- Faculty and other Officers of Instruction, 8—18
- Fees, 167—171: deferred payment, 168; refunds, 168; additional charges, 169; health service, 170; insurance, 171; safekeeping of funds, 171
- Fellowships, graduate, 183
- Financial aid, room and board, 47; 172—182: annual awards, 172; N.Y. State Scholar incentive Awards, 173; N.Y. Regents Scholarships, 173; loan funds, 174; scholarship funds, 175
- Foreign Area Studies, 51
- Foreign students, admission of, 31; insurance, 171
- French, courses, 84

- General information, 37
- General Studies, School of, courses, 40
- Geography, courses, 91
- Geology, courses, 93
- German, courses, 95
- Government, courses, 98
- Grading system, 34
- Graduate credit, 40
- Graduate Faculties, courses under, 40
- Graduates, statistics of, 196
- Graduation, requirements for *see* Degree requirements
- Greek, courses, 103

- Health, 43, 170
- History of College, 22
- History, requirement, 33; courses, 106
- Honors, degree with honors, 42; 183—188: graduate fellowships, 183; graduate scholarships, 184; graduate prizes, 184; undergraduate awards, 184

BARNARD COLLEGE

- Housing, 43: general regulations, 44;
facilities, 44; classifications, 45; fees,
166
- Humanities, Heritage of, courses, 54
- Humanities, requirement, 33
- Insurance, 171
- Interdepartmental offerings, 51
- International Affairs, School of, 160
- Introduction to the College, 22
- Italian, courses, 111
- Journalism, School of, 161
- Language laboratory, 25
- Language requirement, 33
- Latin, courses, 104
- Latin-American Studies, Institute of,
161
- Law, School of, 161
- Library facilities, 25
- Library Service, School of, 161
- Literature requirement, 33
- Loan Funds, 174
- Major requirements, 34
- Married students, 47
- Mathematics, courses, 114
- Medical services, 170
- Medicine, Faculty of, 162, 163
- Minor Latham Playhouse, 24
- Music, courses, 119
- Natural Resources, Conservation of,
53, 91
- Near and Middle East Institute, 160
- New York State Scholar Incentive
Awards, 173
- Nursing, 162
- Occupational Therapy, 162
- Organization, 7
- Oriental Studies, 125
- Phi Beta Kappa, 42
- Philosophy, courses, 129
- Physical Education, requirement, 34;
courses, 132
- Physical Therapy, 163
- Physicians and Surgeons, College of,
162
- Physics, courses, 134
- Placement Office, 47
- Political Science, *see* Government
- Prizes, 184
- Professional option, 158
- Professional Schools, requirements,
158–165
- Programs, changes, restrictions, 39
- Psychology, courses, 138
- Public Health and Administrative Medi-
cine, School of, 163
- Quizzes, 42
- Readmission, 32
- Refunds, 168
- Registration, 37
- Religion, courses, 143
- Residence halls, 24, 44; fees, 166
- Romance Languages and Literature,
courses: French, 84; Italian, 111;
Spanish, 155
- Russian, courses, 148
- Russian Institute, 161
- Safekeeping of Students' Funds, 171
- Scholarships: entering students, 172;
students in college, 173; loan funds,
174; scholarship funds, 175; gradu-
ate, 184
- Sciences, Natural, requirement, 34
- Sciences, Social, requirement, 33
- Social Work, 164
- Sociology, courses, 151
- Spanish, courses, 155
- Special students, 32
- Statistics, 196
- Student life, 25
- Summer Session, regulations concern-
ing, 41
- Teachers College, courses, 41, 164
- Transfers, requirements for, 30, 35; *see*
also Admission: advanced standing
- Trustees, Board of, 7
- Union Theological Seminary, 165
- Withdrawal, of students, 38; of courses,
49

BEQUEST FORM

General

I,, give and bequeath to Barnard College in the City of New York the sum offor the uses and purposes of the said Corporation.

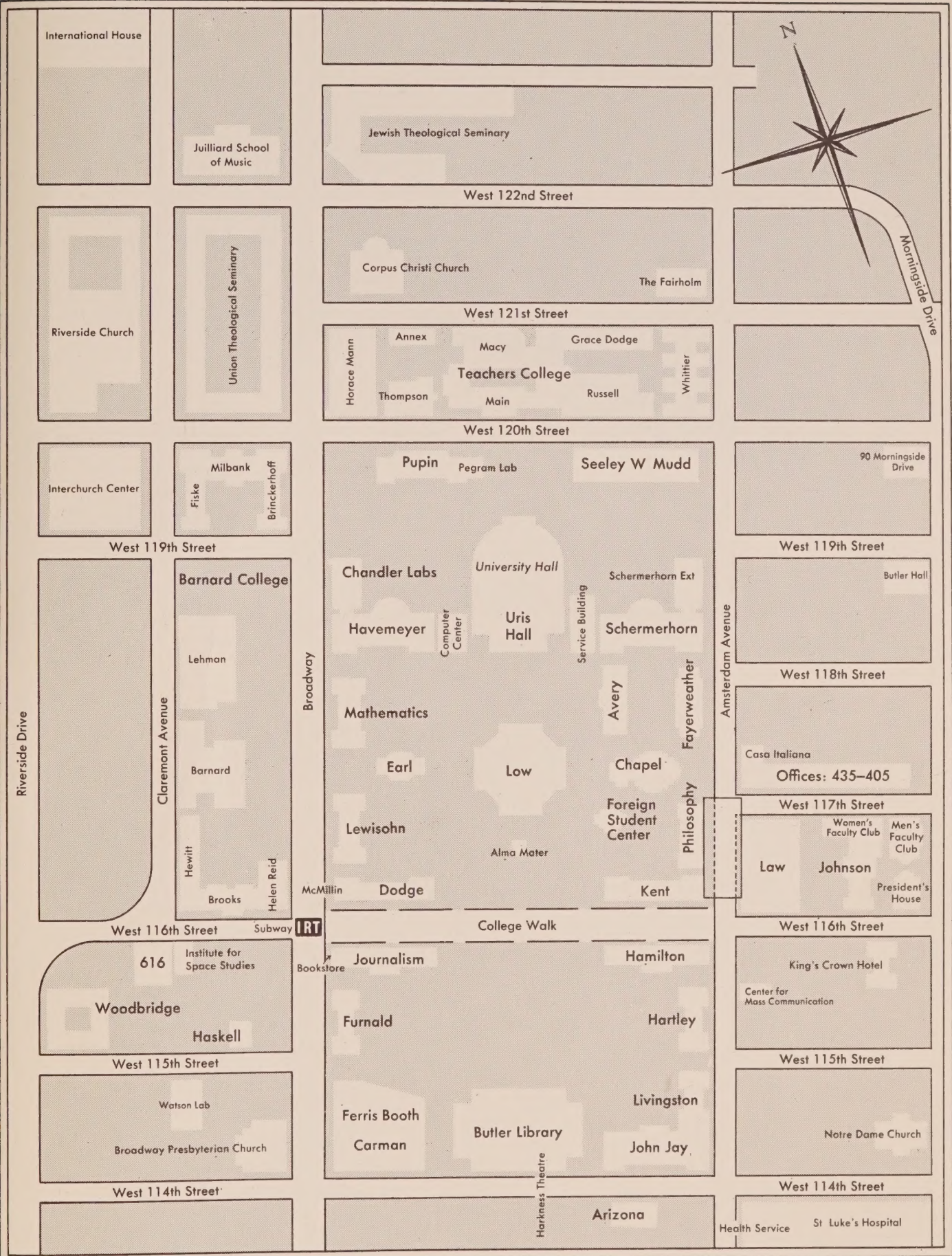
Endowment

I,, give and bequeath to Barnard College in the City of New York the sum ofto be added to the General Endowment of the said Corporation.

For a Specific Purpose

I,, give and bequeath to Barnard College in the City of New York the sum ofto be used for the purposes of
.....
to be known as theFund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.

COLUMBIA UNIVERSITY



The Morningside Campus & Environs

